Е 63/25
черт.
LFF91

ЧЕРТЕЖИ

СОСТАВЛЕННЫЕ

В. ЛАРІОНОВЫМЪ.

МОСКВА.

1867 ГОДА.

Библіотека
Училища
Александров.
А 4/31
VIII
ЭБ
Ч 111/291
Ч 111/124
115
Ж 63/25
211/88

IV-5
Л-25.
702
БИБЛИОТЕКА
УПРАВЛЕНИЯ
ДЕЛАМИ
Р. В. С. Р.
1138
Инд. XIX

IV-5
Л-25. 63/25
114/591
211/88

ЧЕРТЕЖИ

къ учебному пособію

ПО ПРЕДМЕТУ НИЗШЕЙ ГЕОДЕЗІИ

СОСТАВЛЕННЫЕ

Преподавателемъ Низшей Геодезіи
въ Константиновскомъ Межевомъ
Институтѣ Межеваго Корпуса
Инженеръ-Капитаномъ
В. Ларіоновымъ.

въ 1866 году

ПУБЛ. БИБЛ. имени В. И. ЛЕНИНА С.С.С.Р.

Напеч. въ Литогр. Констан. Межев. Инстит.

В.П.Л.

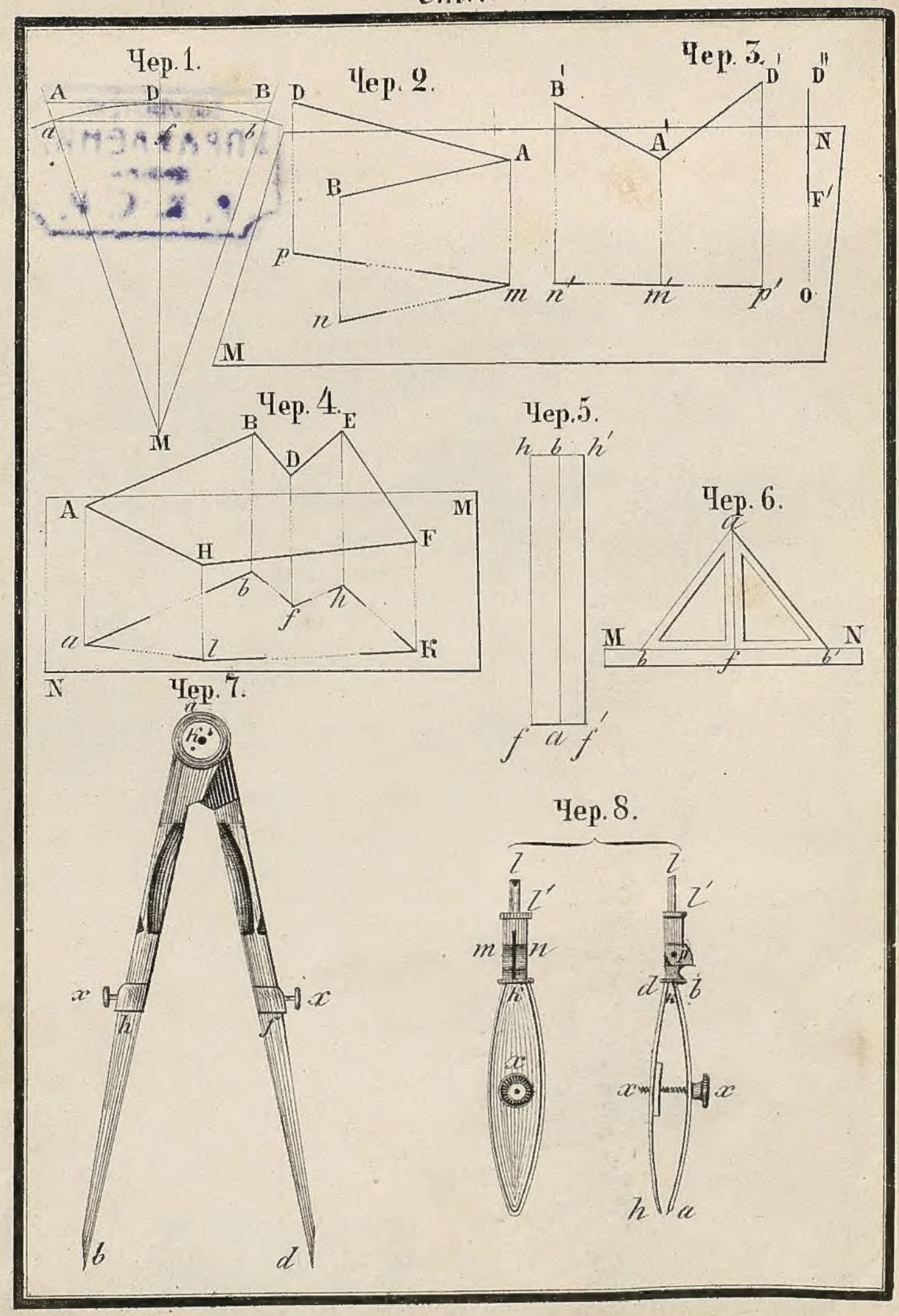
ПРАВАЯ

ЗАМѢЧЕННЫЯ ОШИБКИ:

Стр.	№ Черт.			
10	42	Вмѣсто	k, k', k'', k'''	$KK'K''K'''$
11	51	———	M	N
21	92	———	KP	kp
21	94	———	k	K
23	105	———	C	c
39	139	———	цеоль pof	есть x'
42	147	———	s	S
47	163	———	ABCDB	ABCDE
66	230	на линіи	ab вмѣсто f''	должно быть f'

Всесоюзная
БИБЛИОТЕКА
имени
В. И. ЛЕНИНА
16818-44
2007098236

БИБЛИОТЕКА
УПРАВЛЕНИЯ
ДЕЛАМИ
Р. В. С. Р.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Чер. 2.
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Чер. 3.
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Чер. 4.
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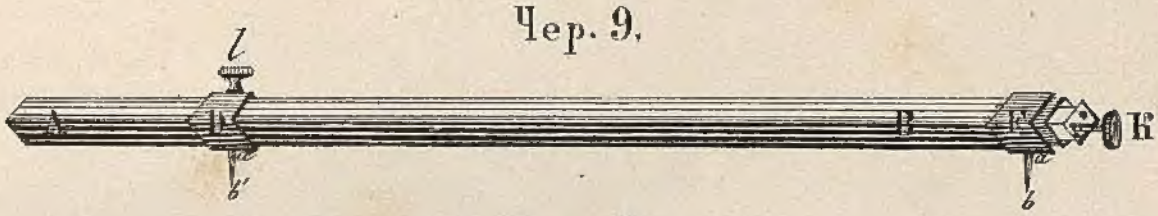

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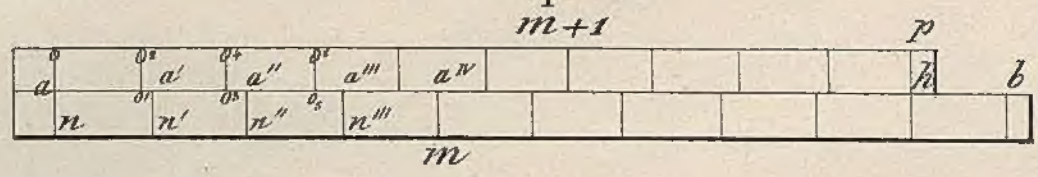

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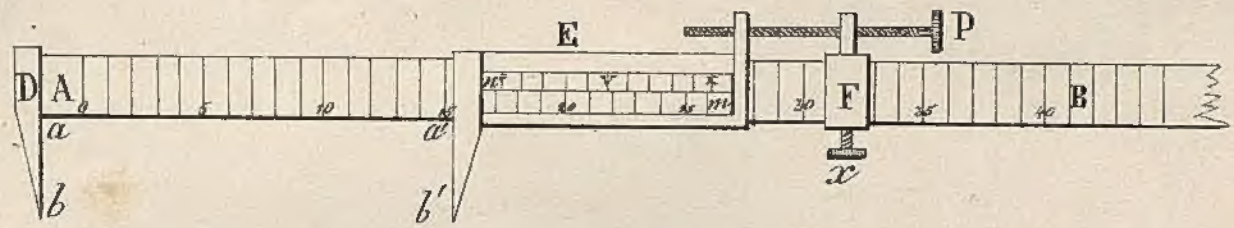

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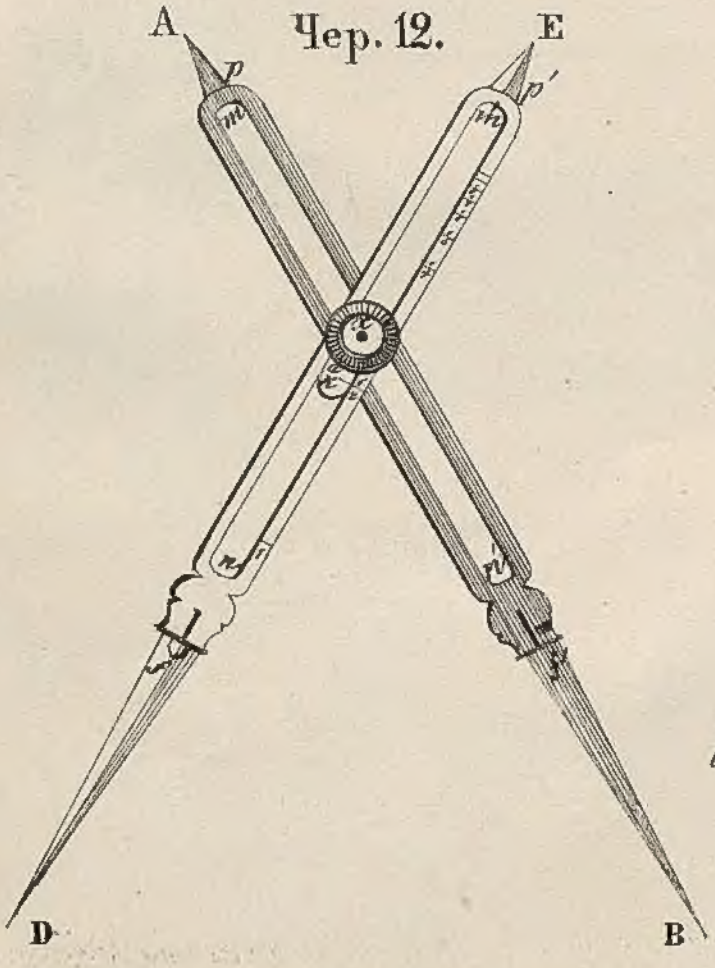

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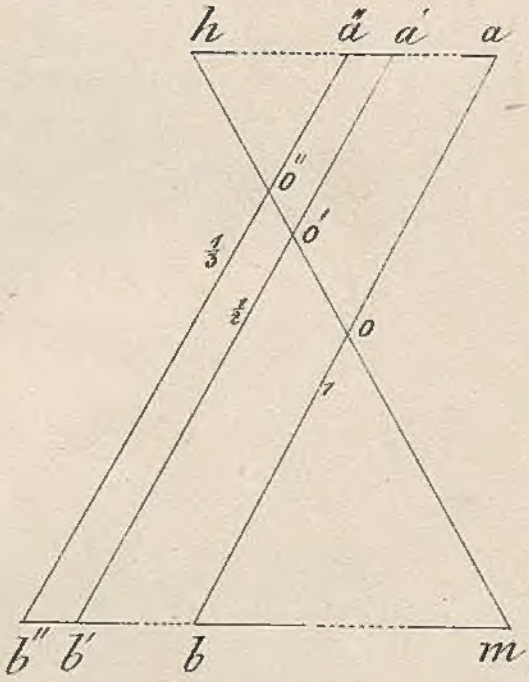

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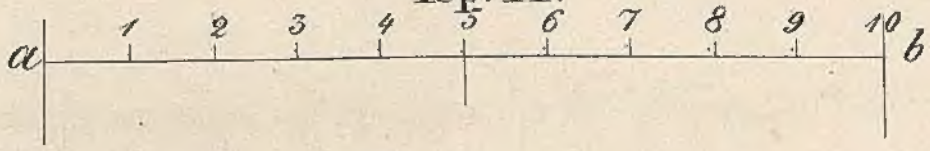

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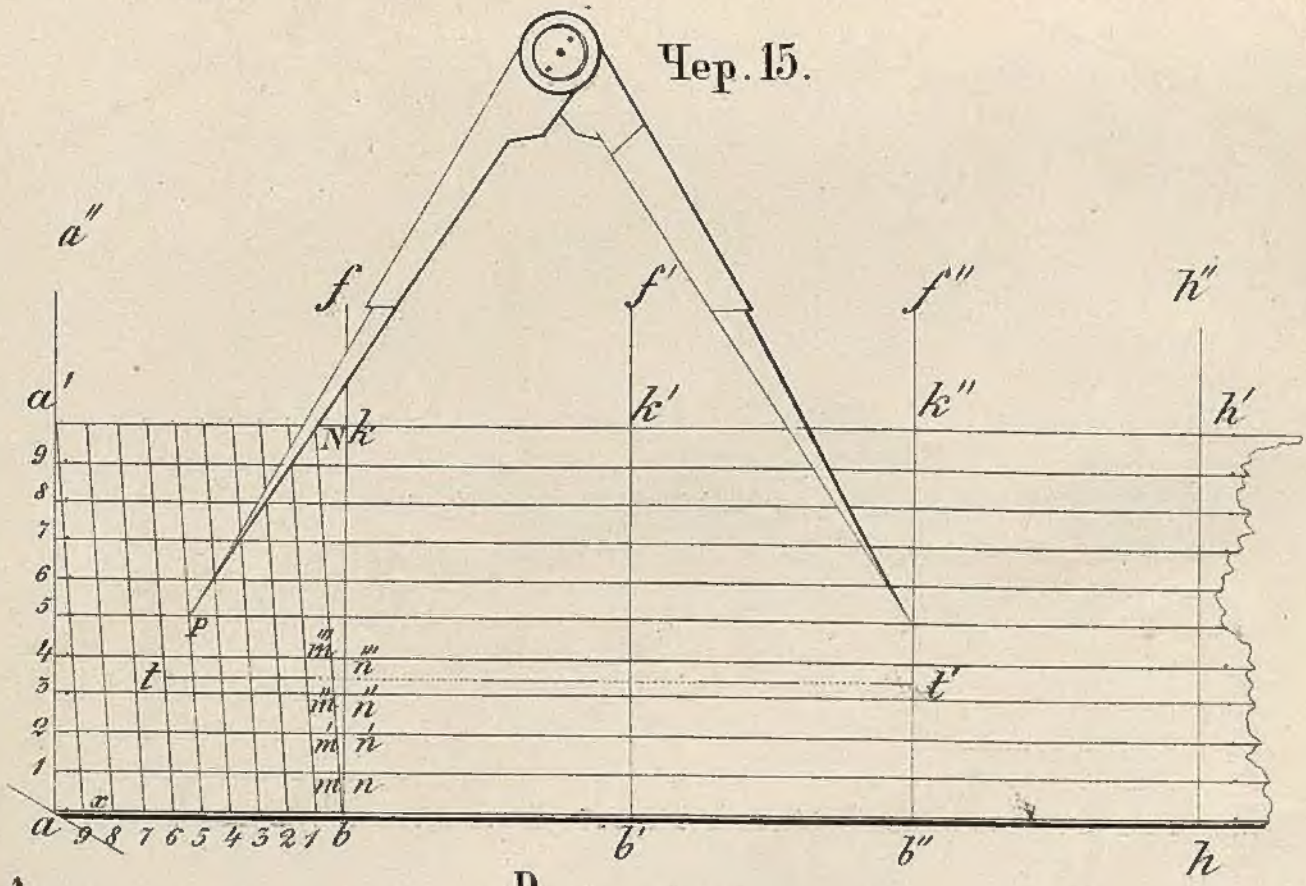

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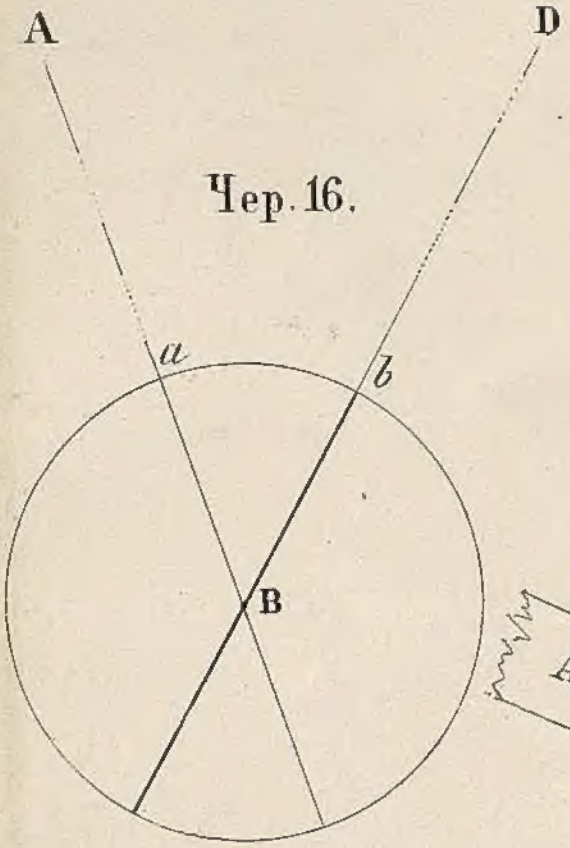

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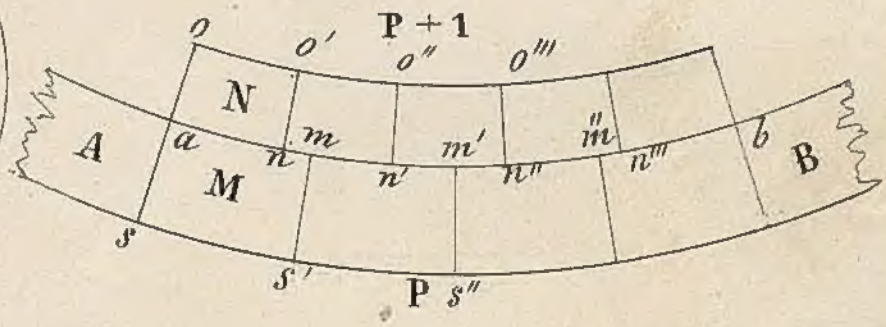

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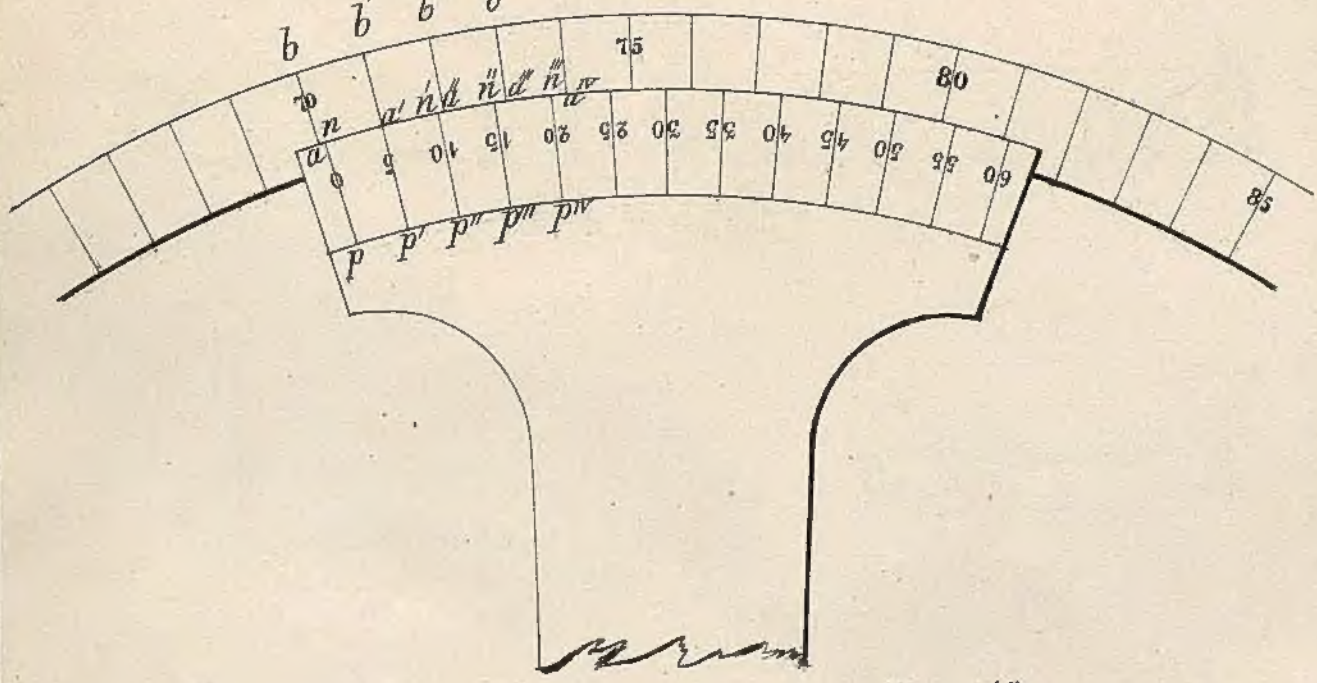

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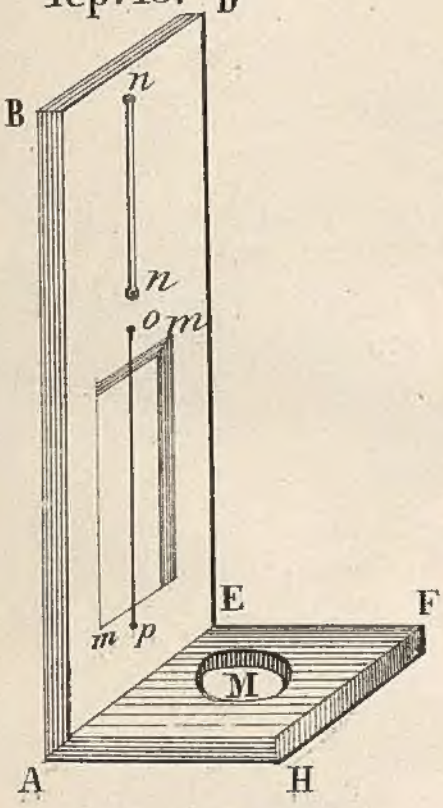

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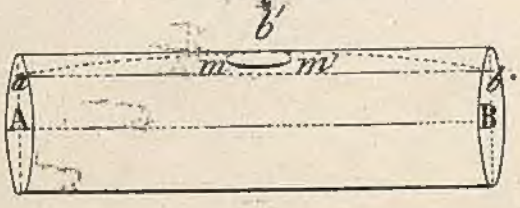

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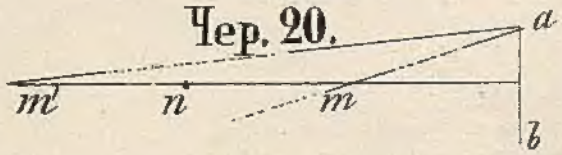

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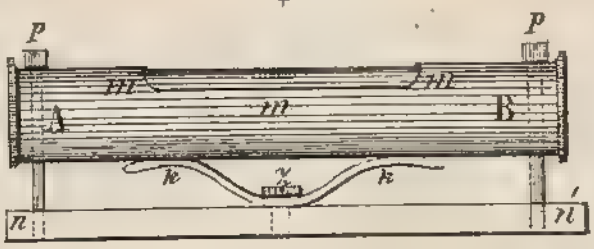

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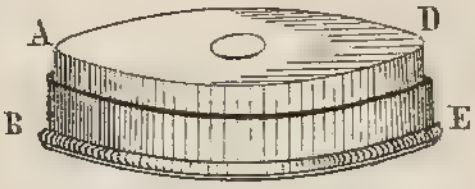

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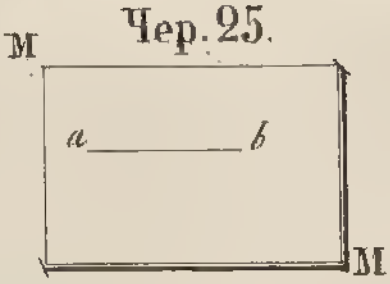

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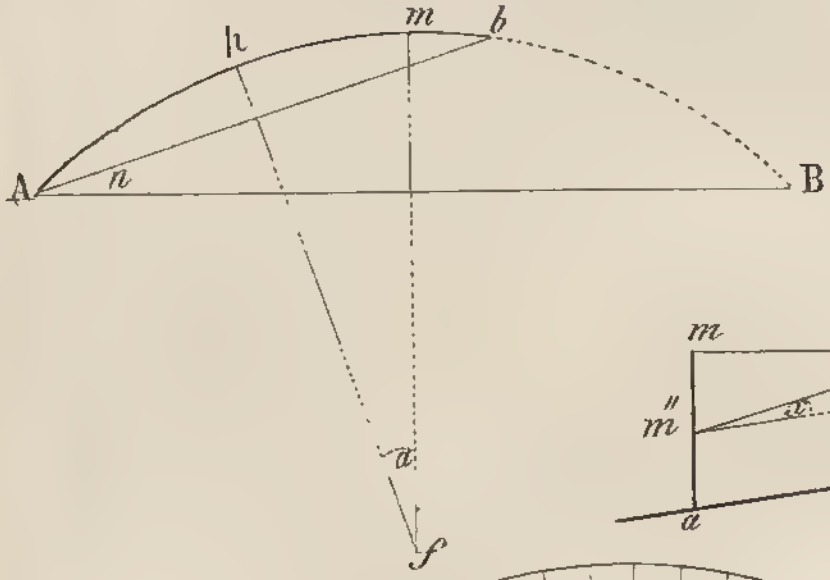

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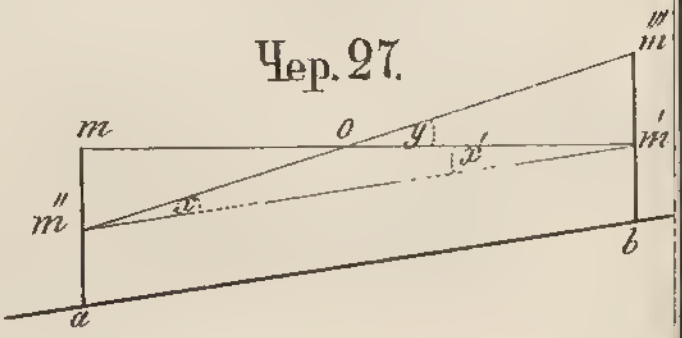

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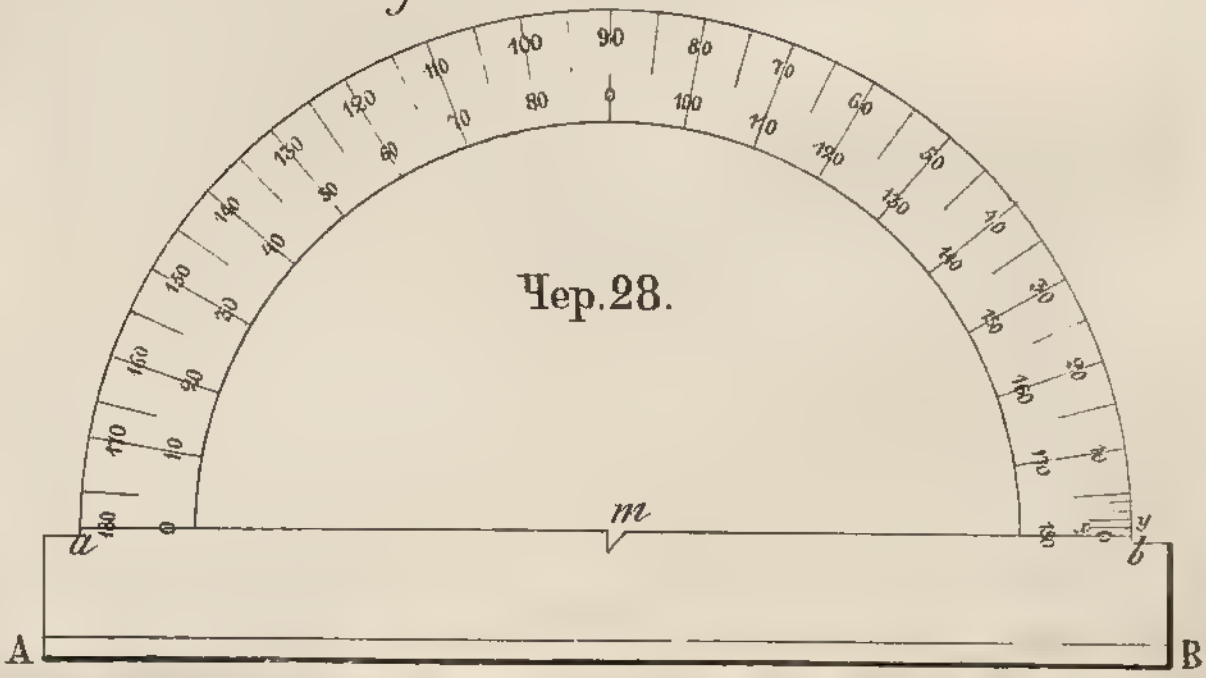

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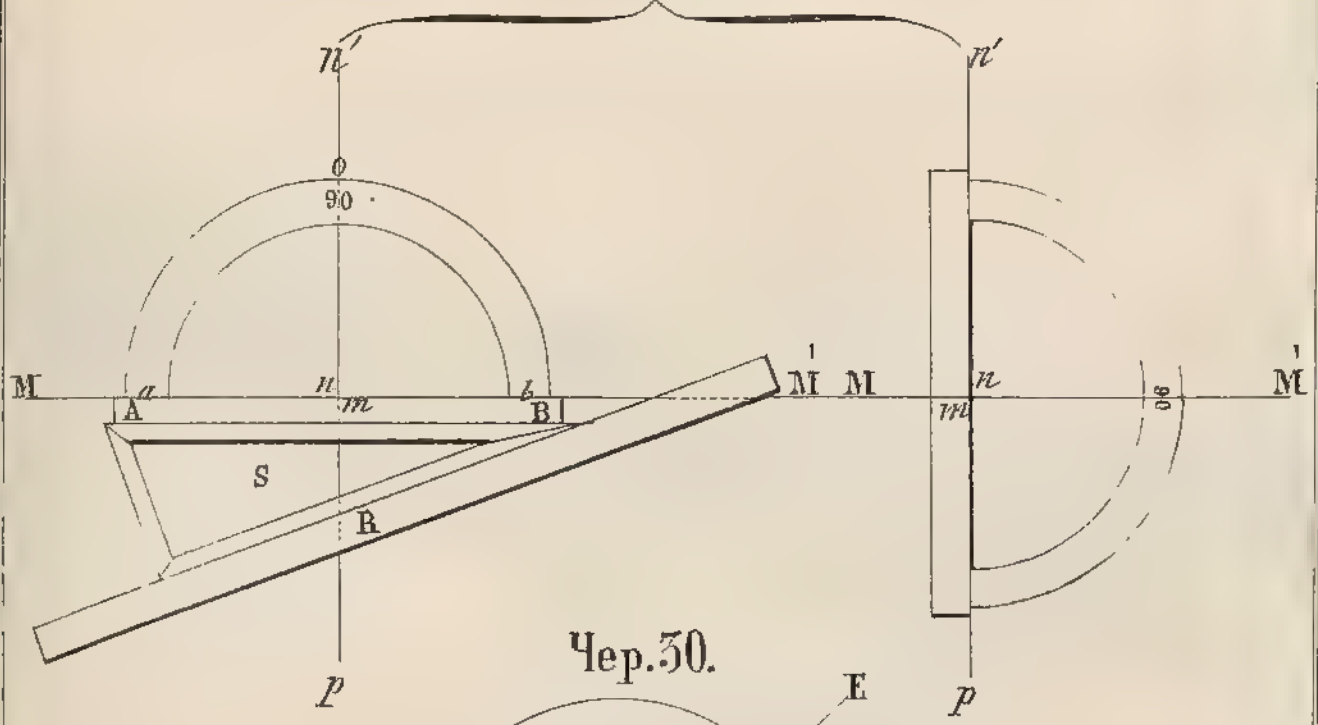

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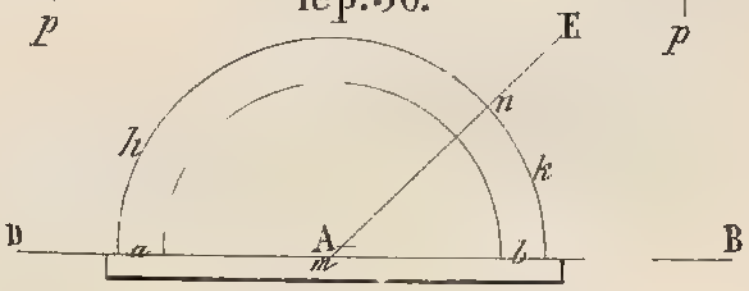

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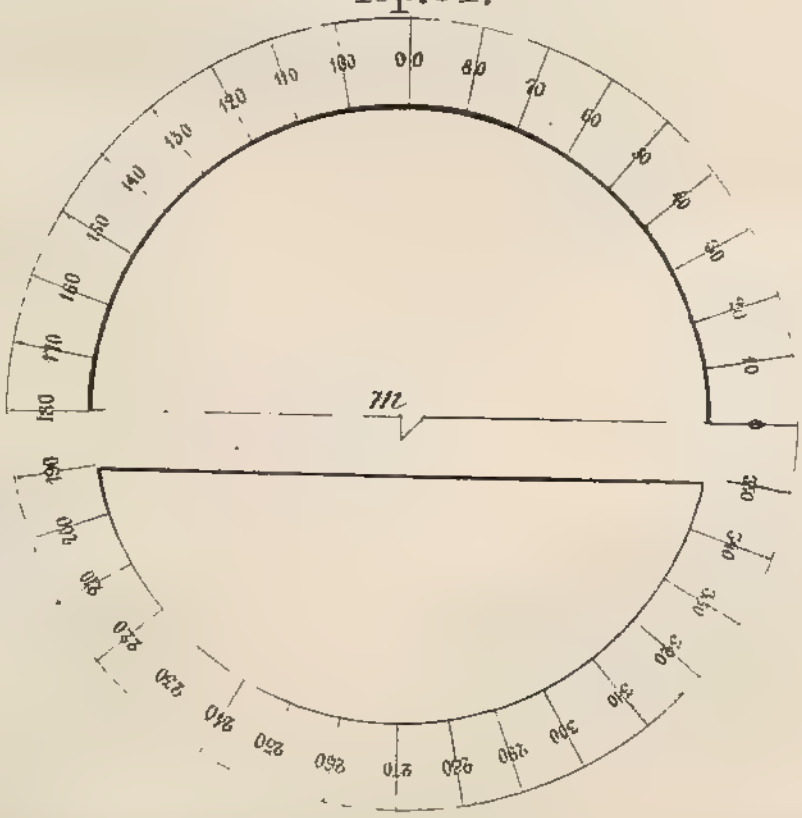

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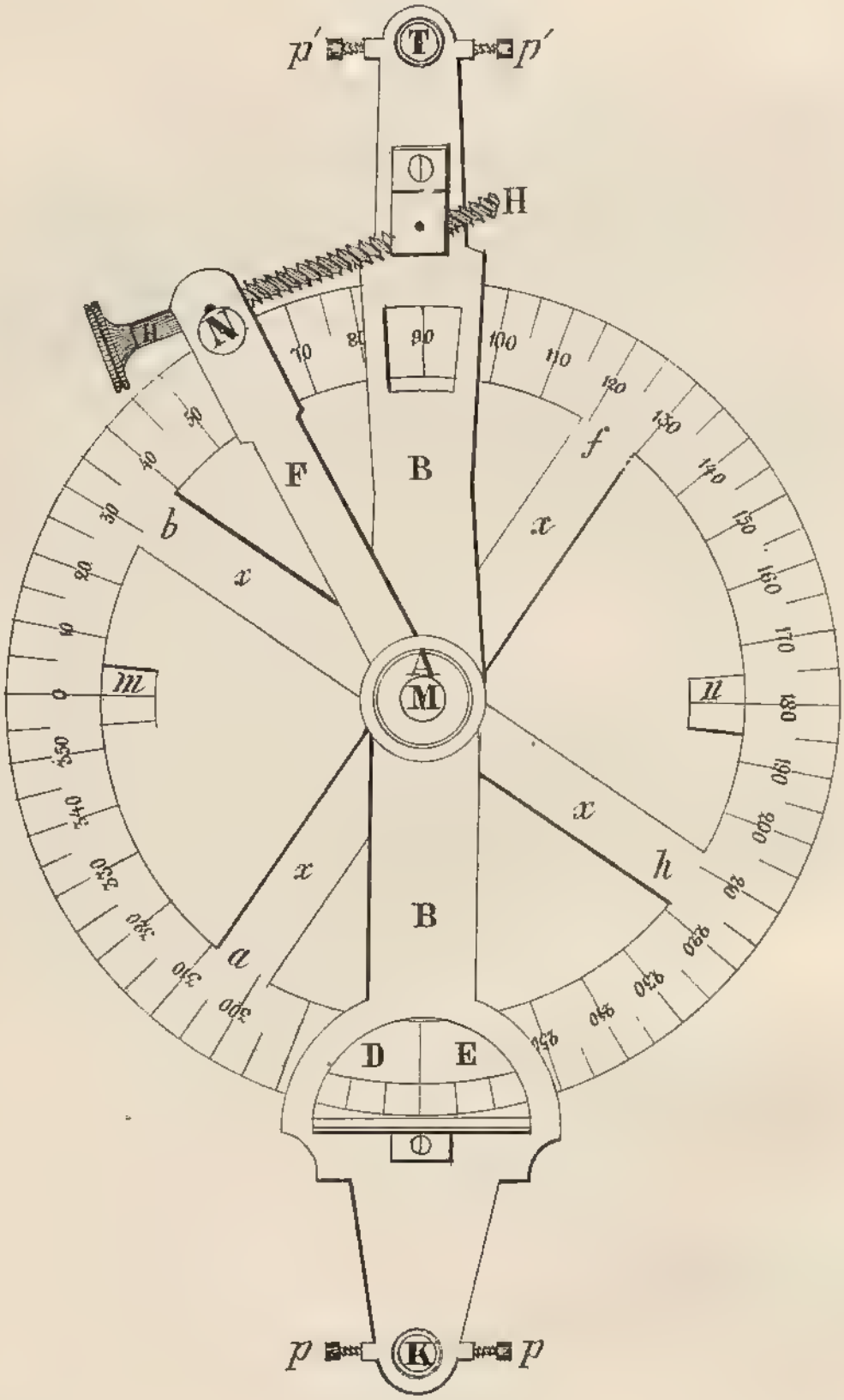

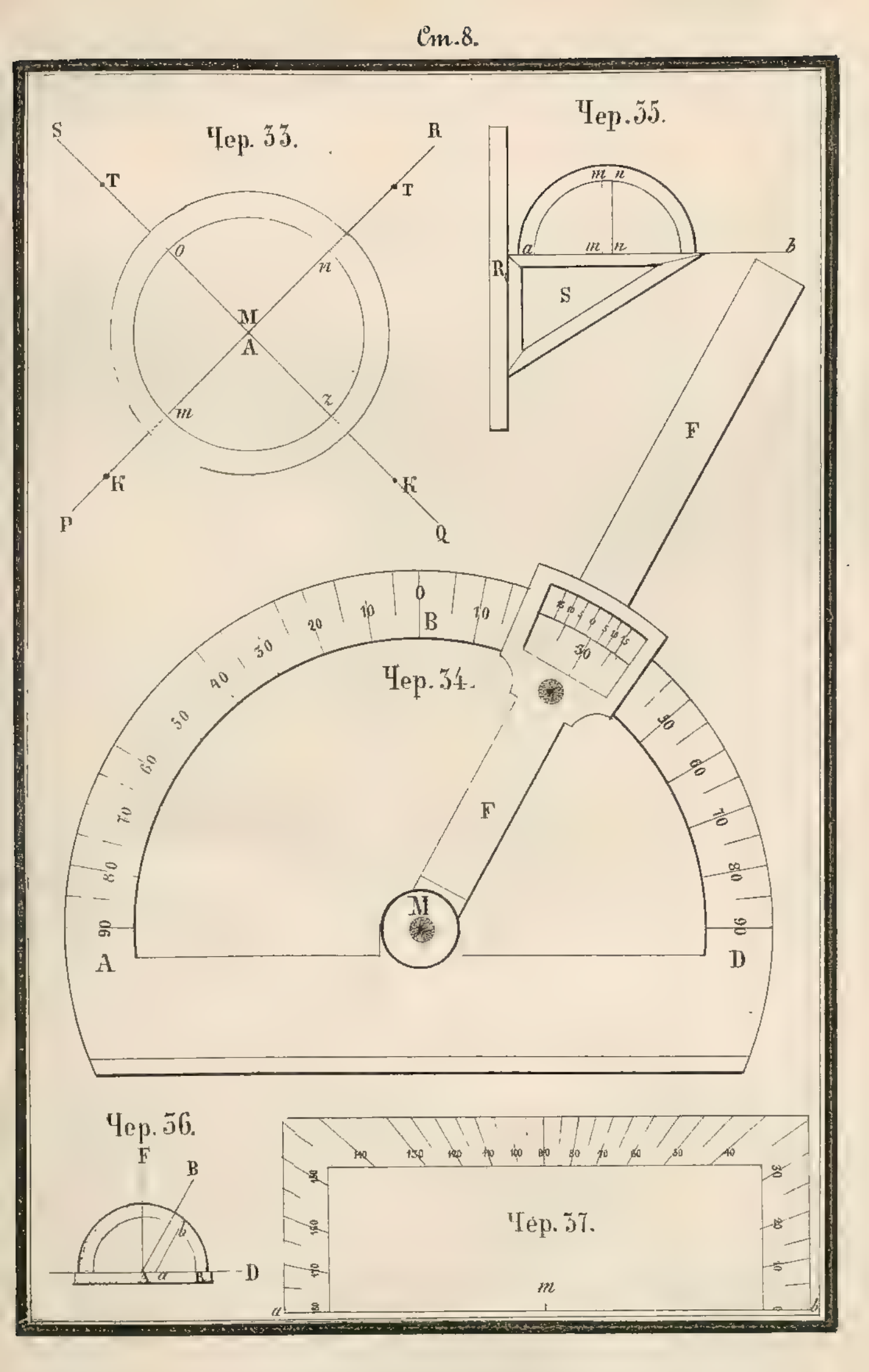
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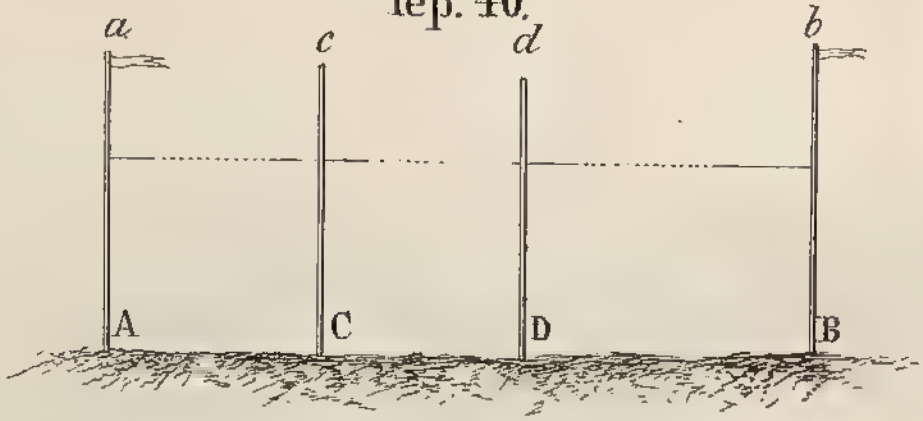

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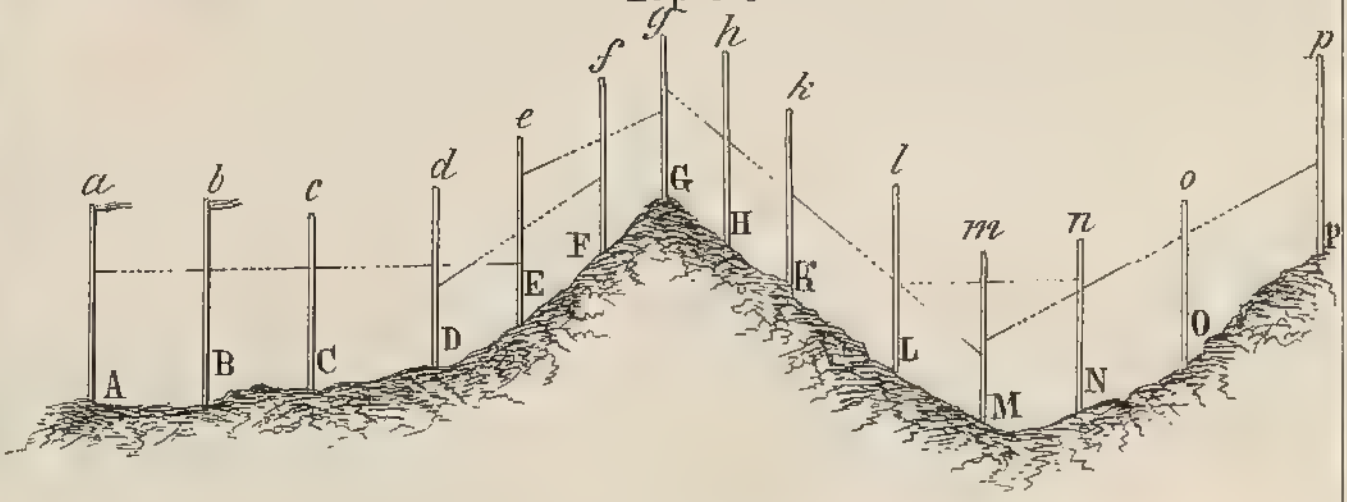

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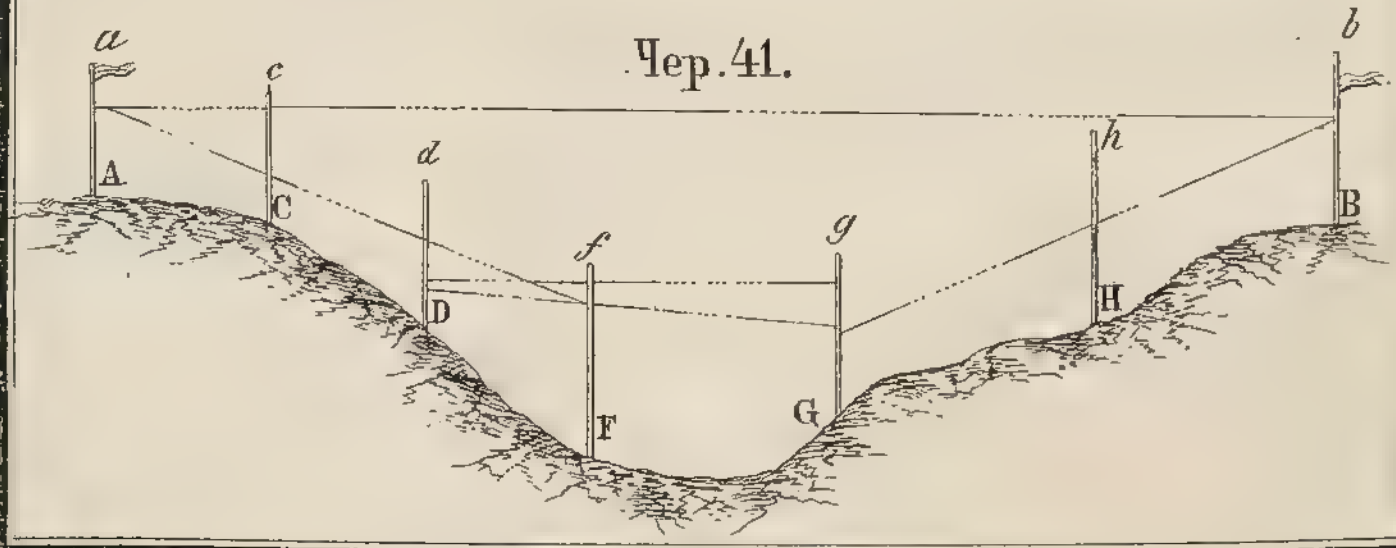

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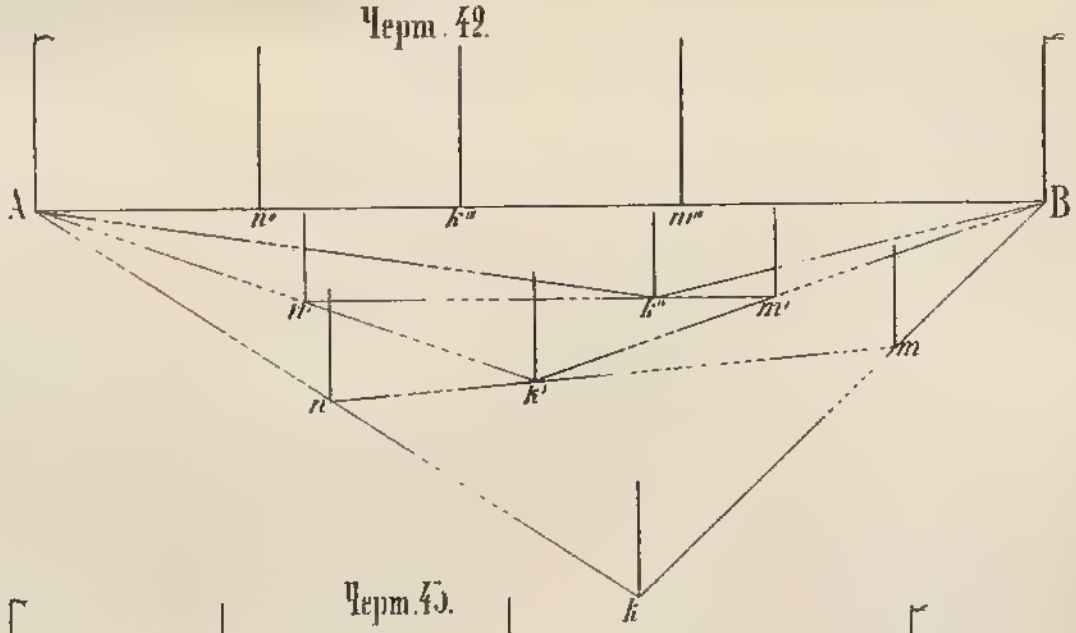

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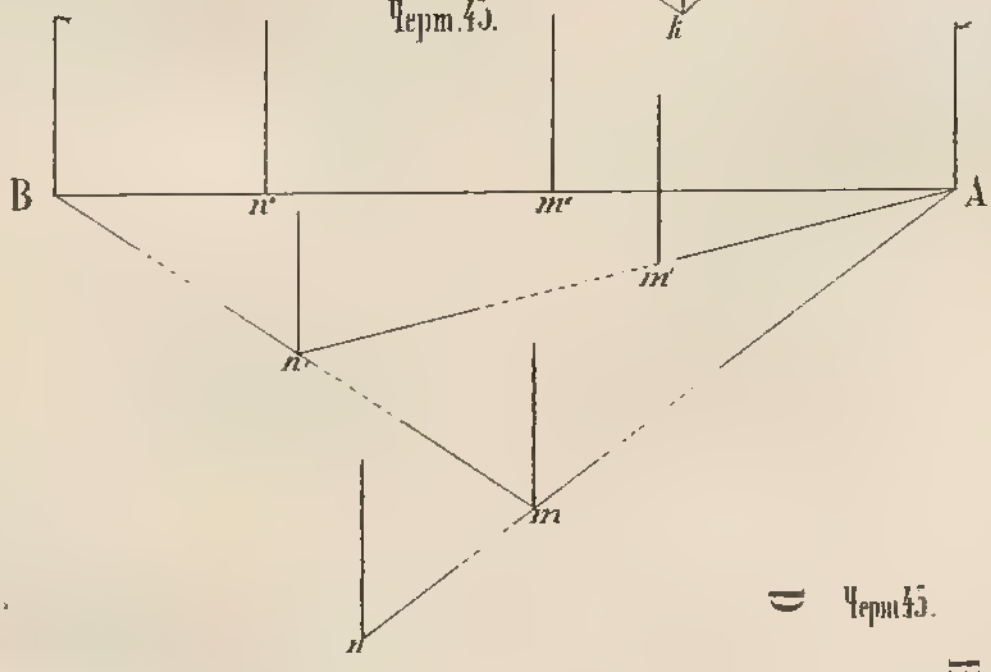

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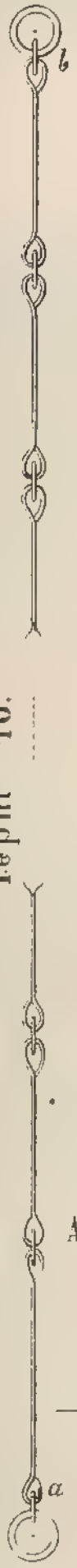

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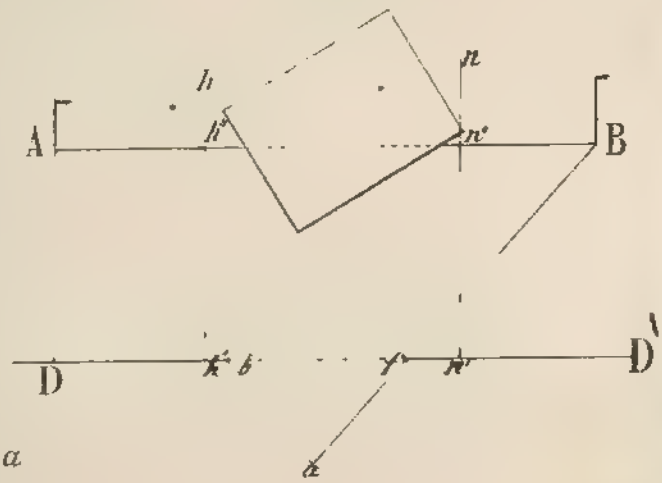

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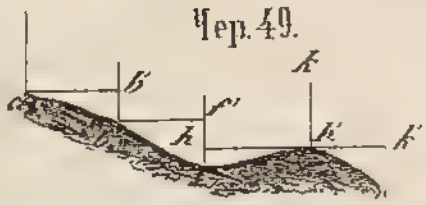
Черт. 45.

Чер. 48.

Чер. 49.



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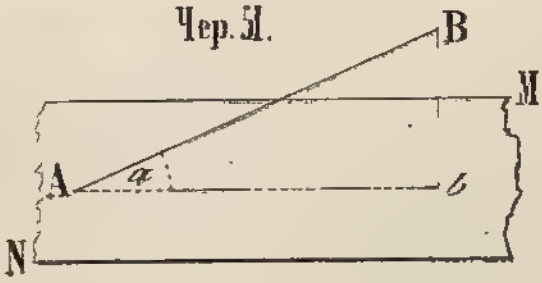

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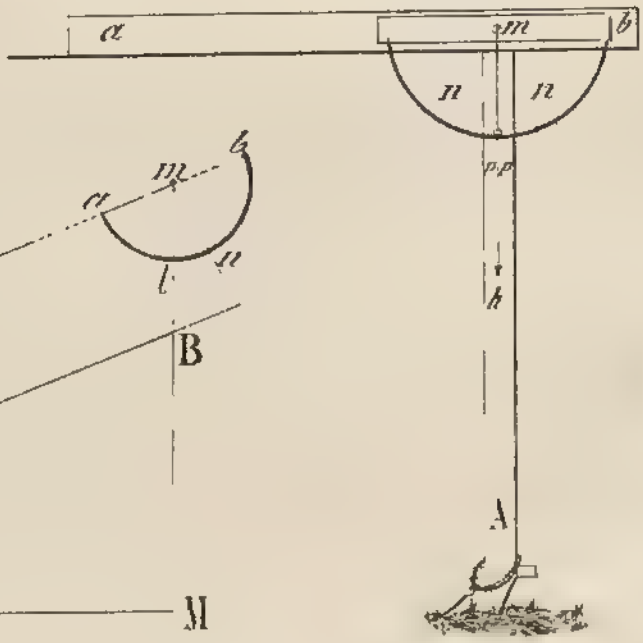

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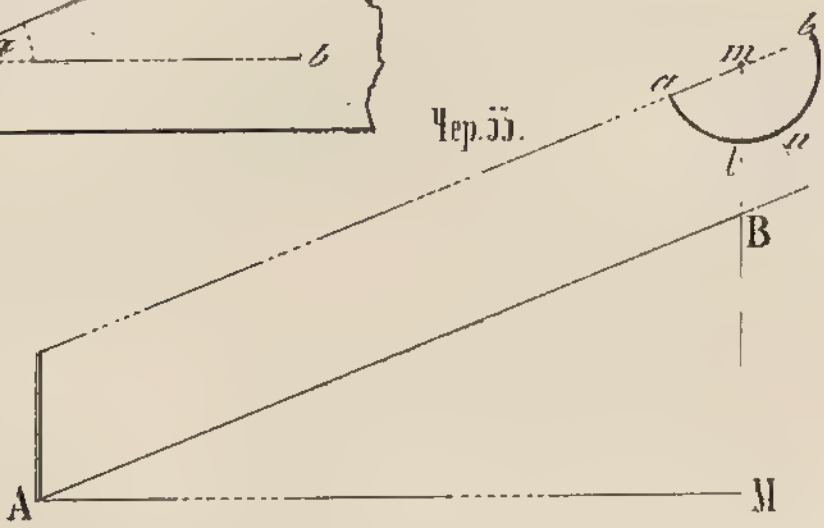

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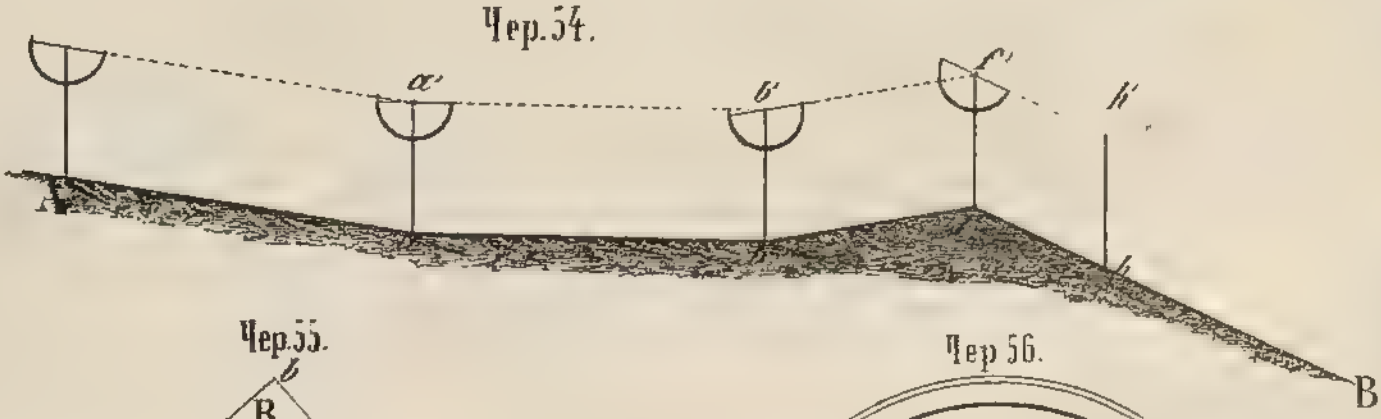

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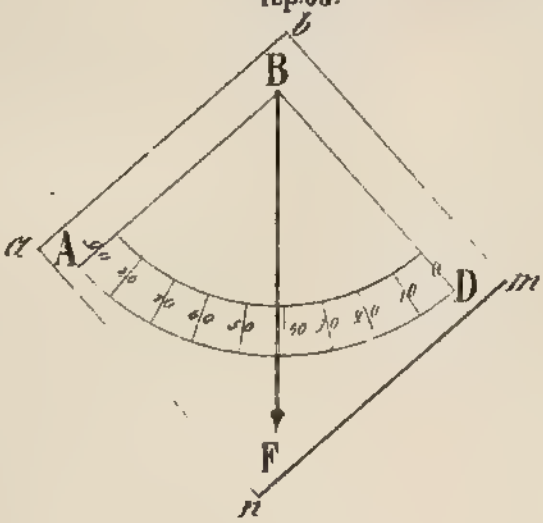

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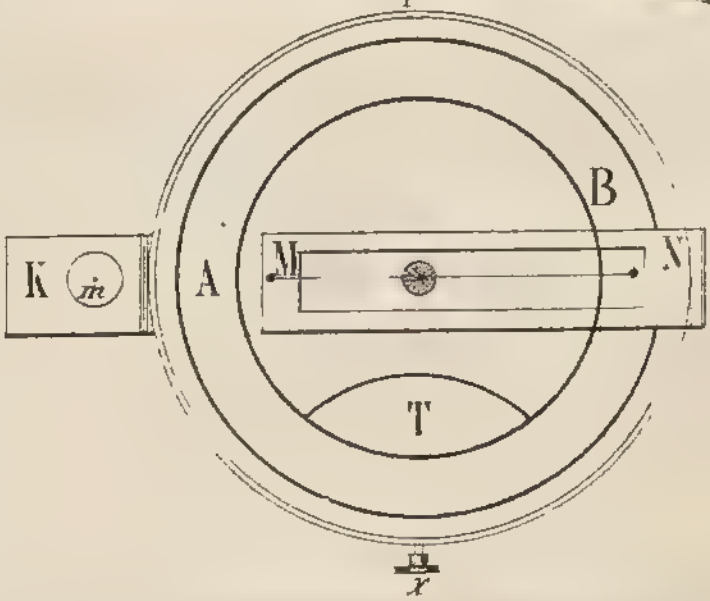

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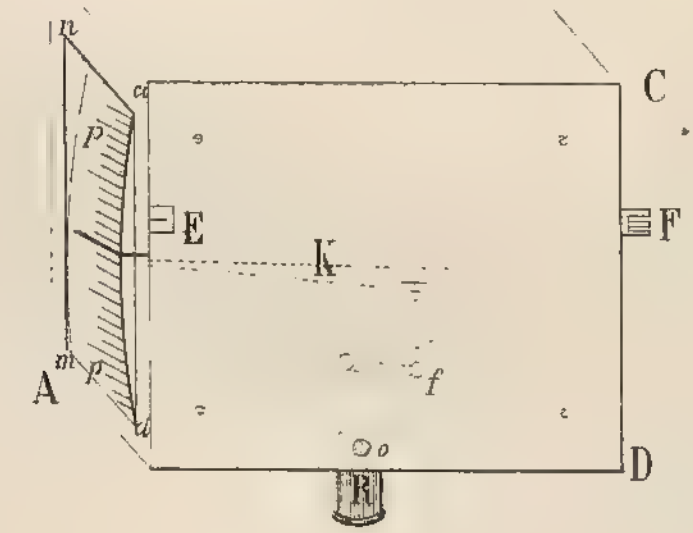

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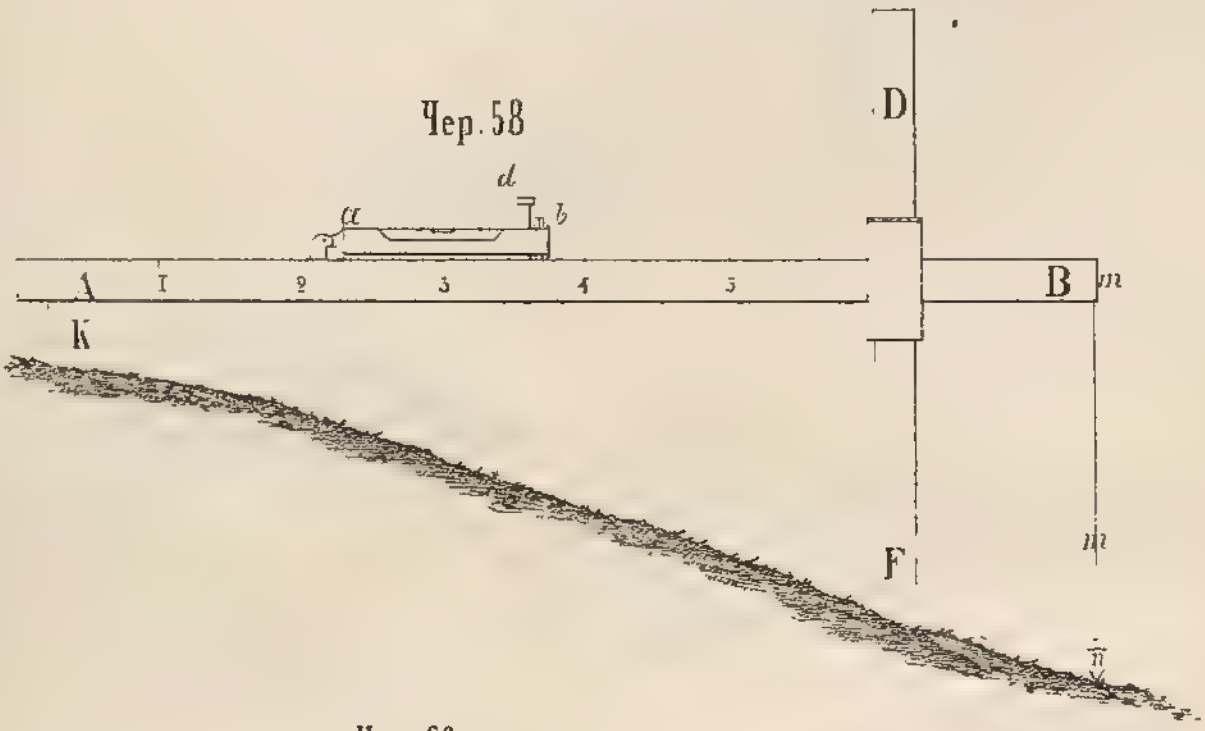

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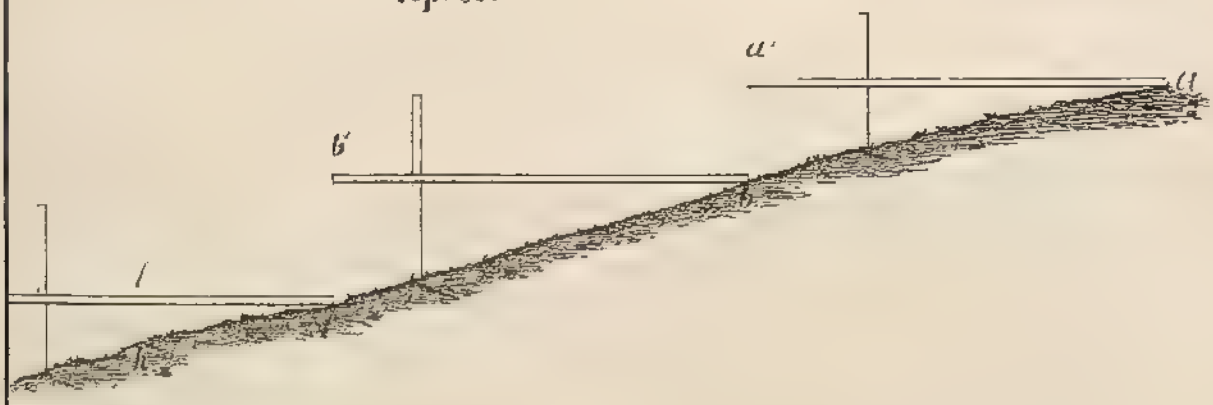

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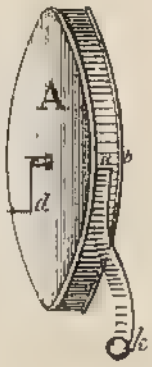

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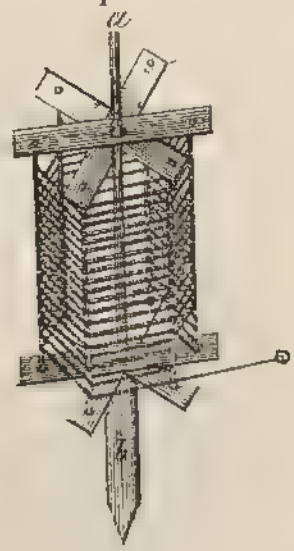

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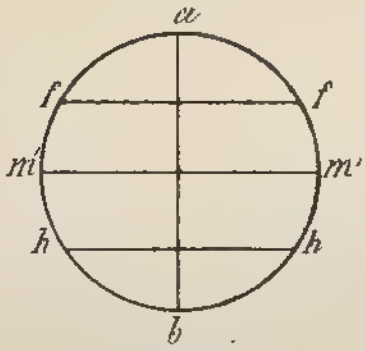

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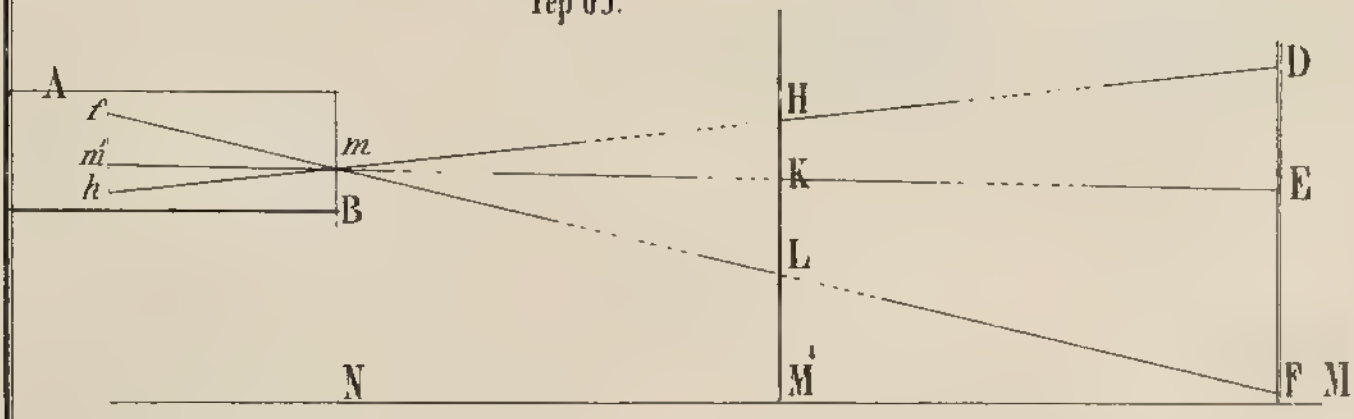

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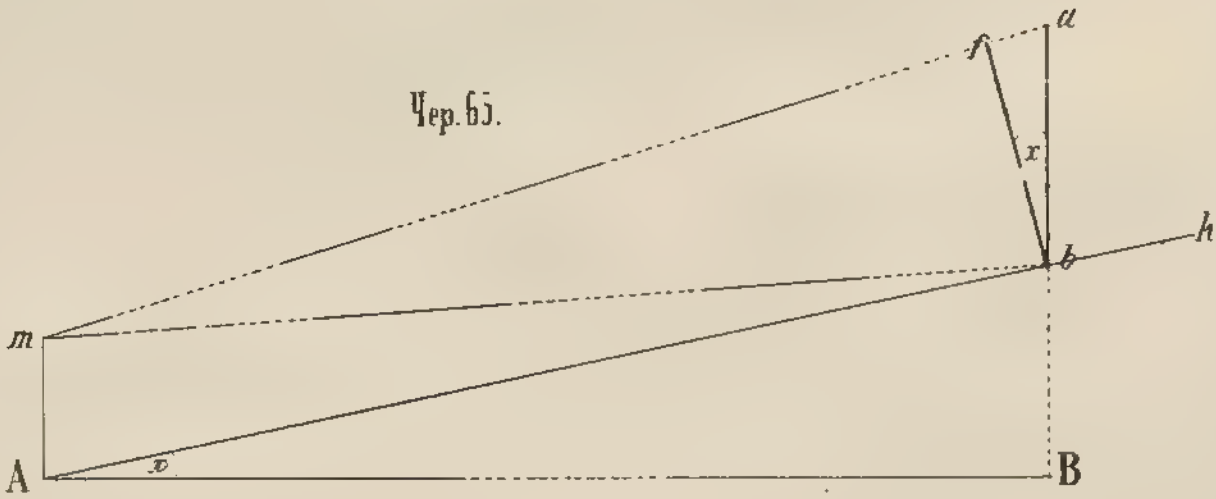

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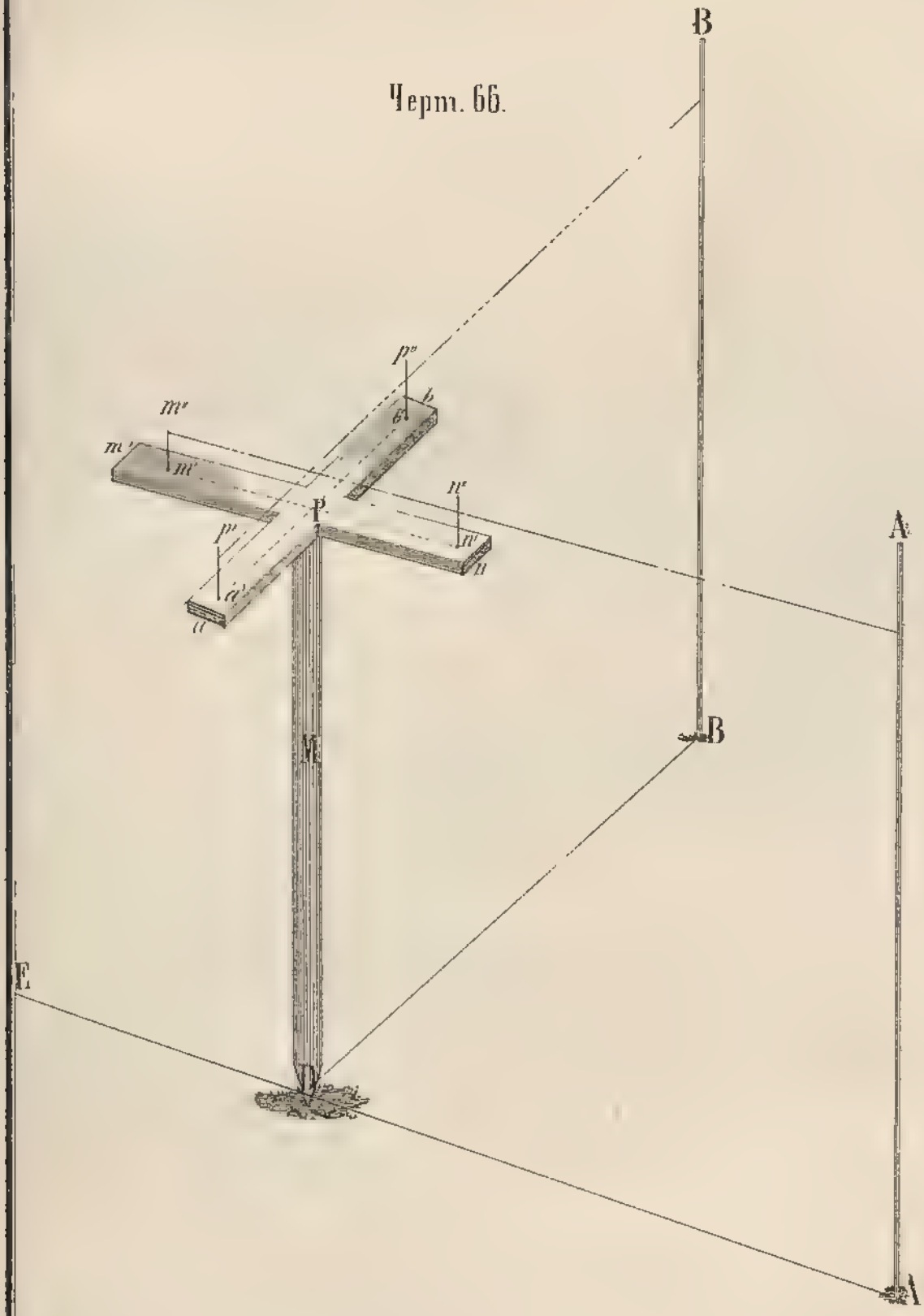

Грав. С. Гр...

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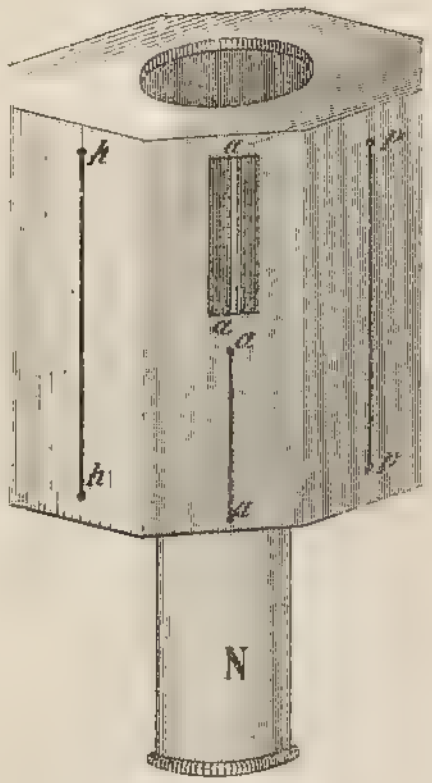

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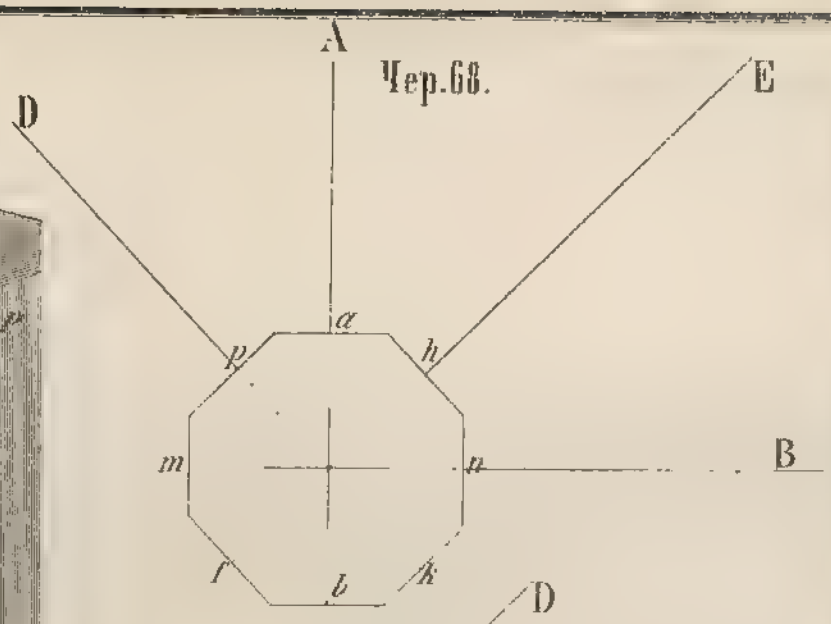

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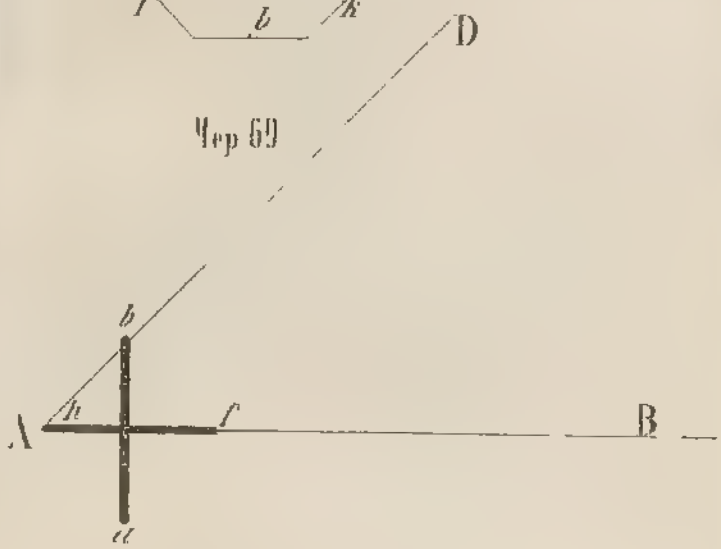

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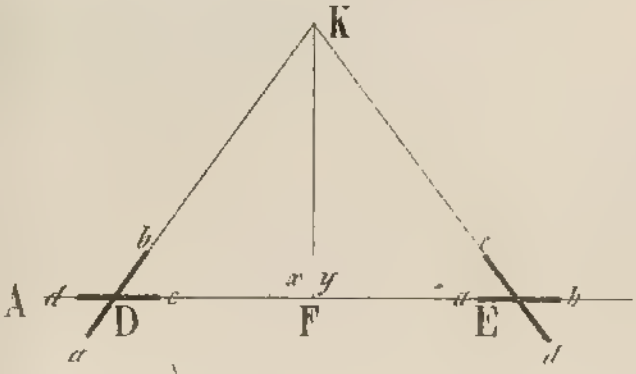

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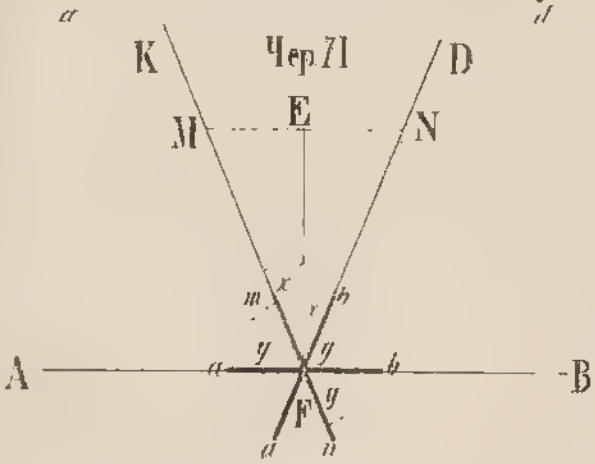

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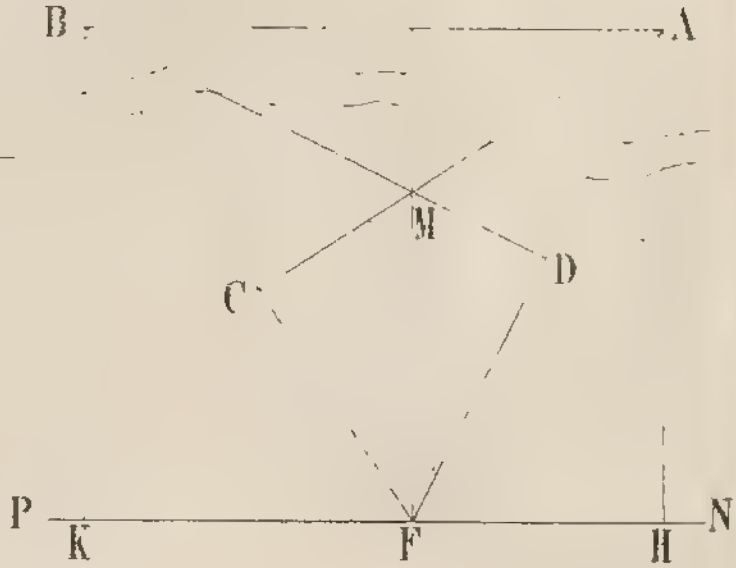
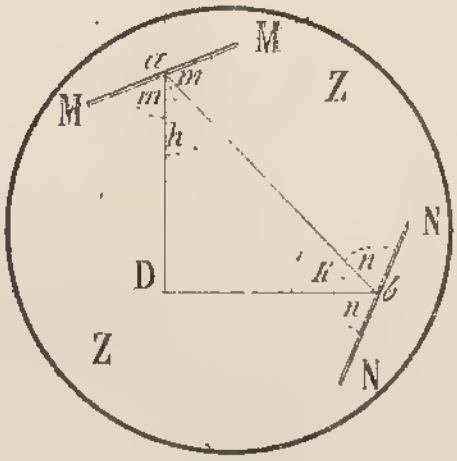


Ф. в С.Пр. -тербургъ.

Чер 73.



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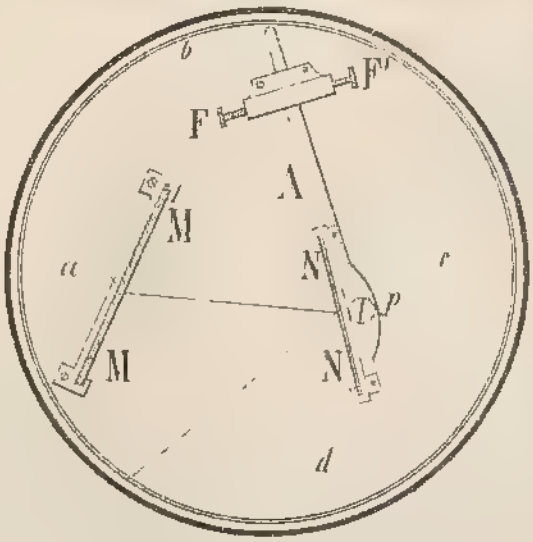

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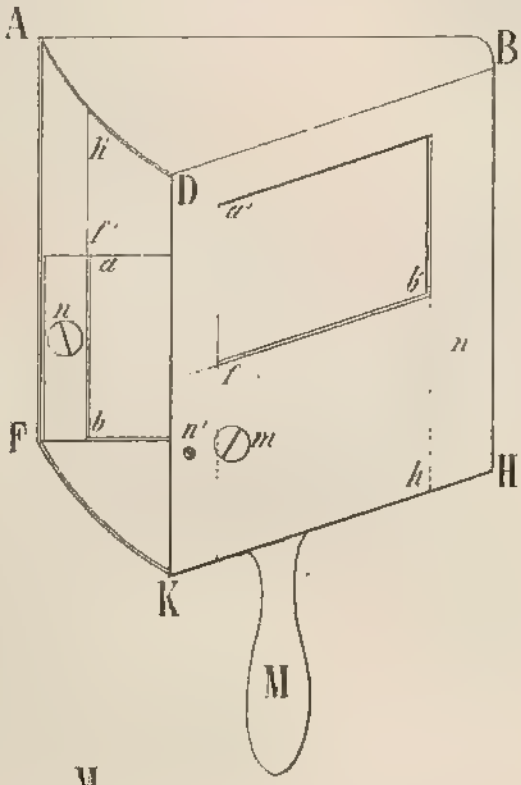

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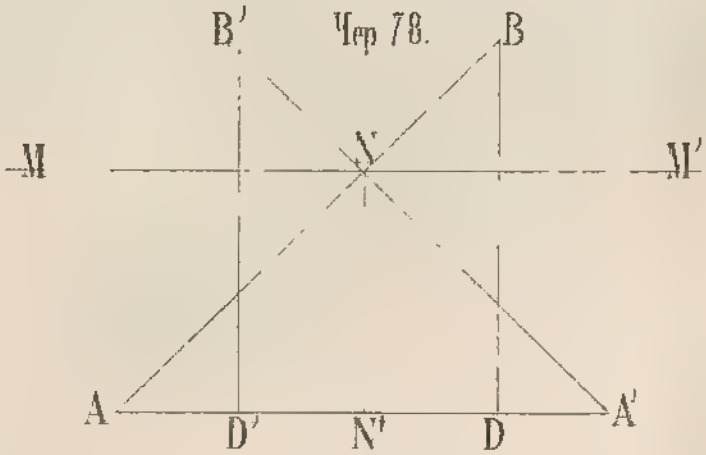

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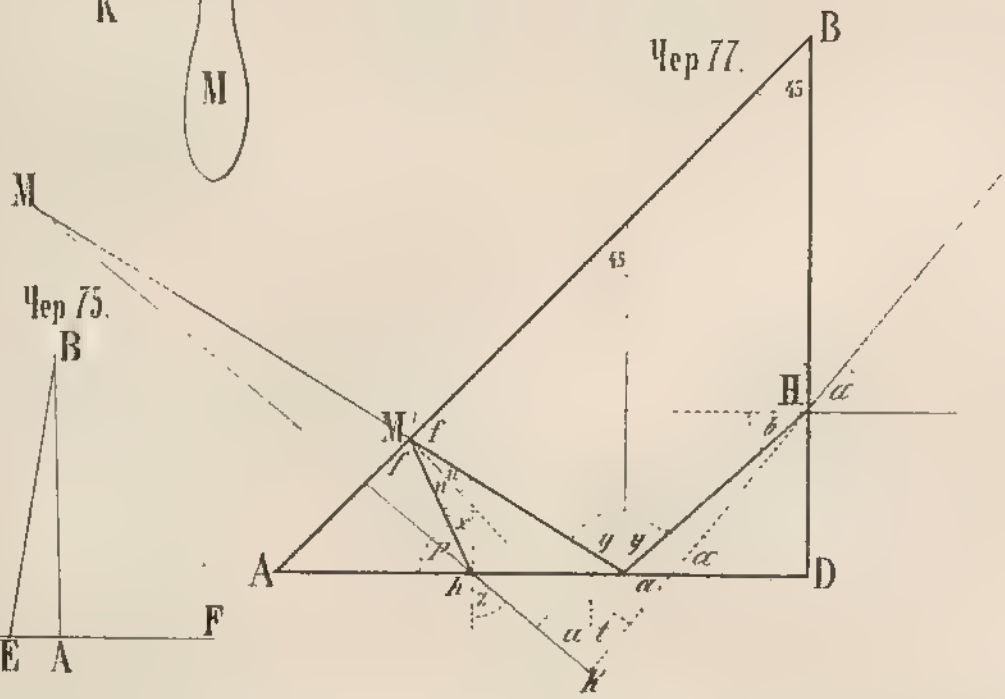

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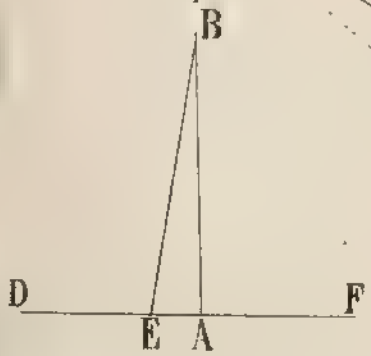

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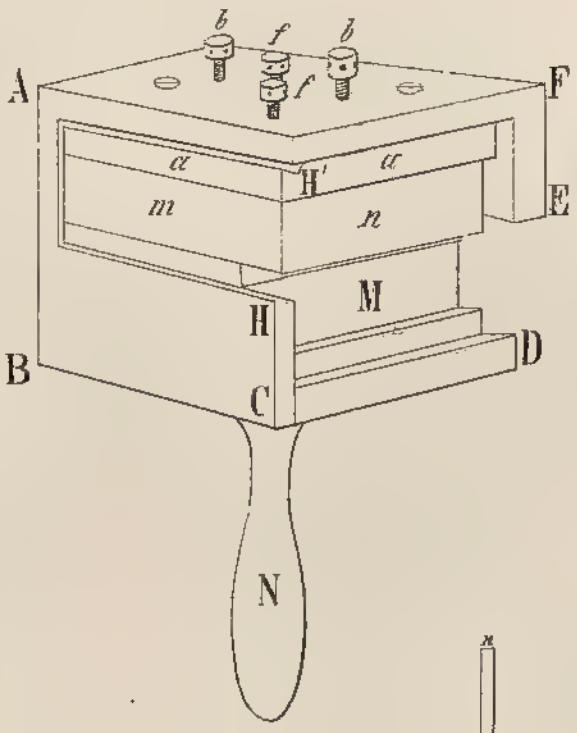

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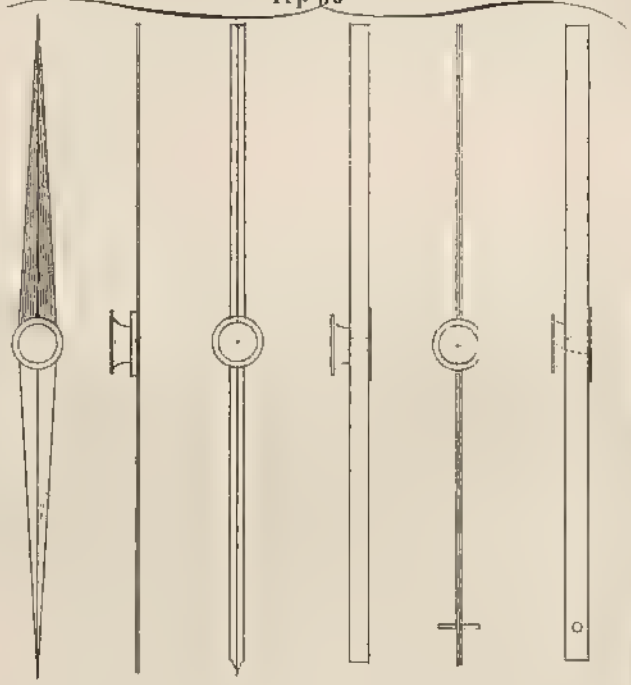

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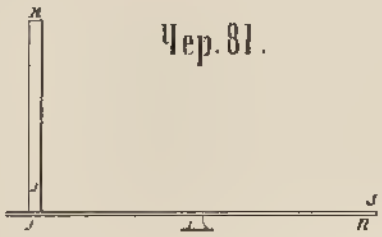

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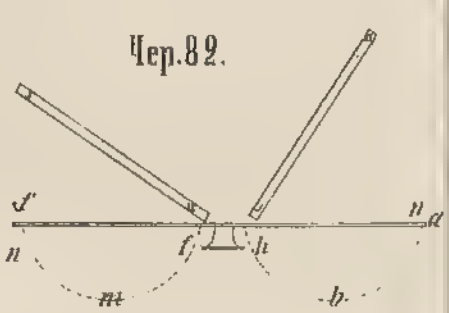

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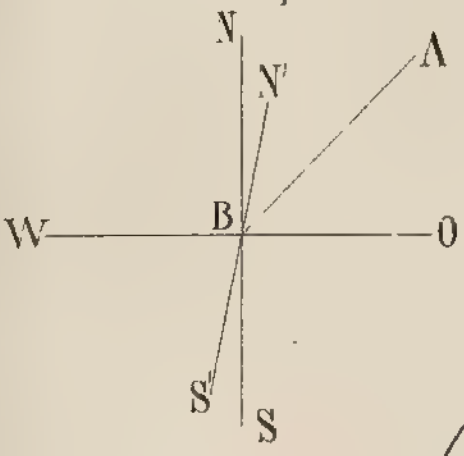

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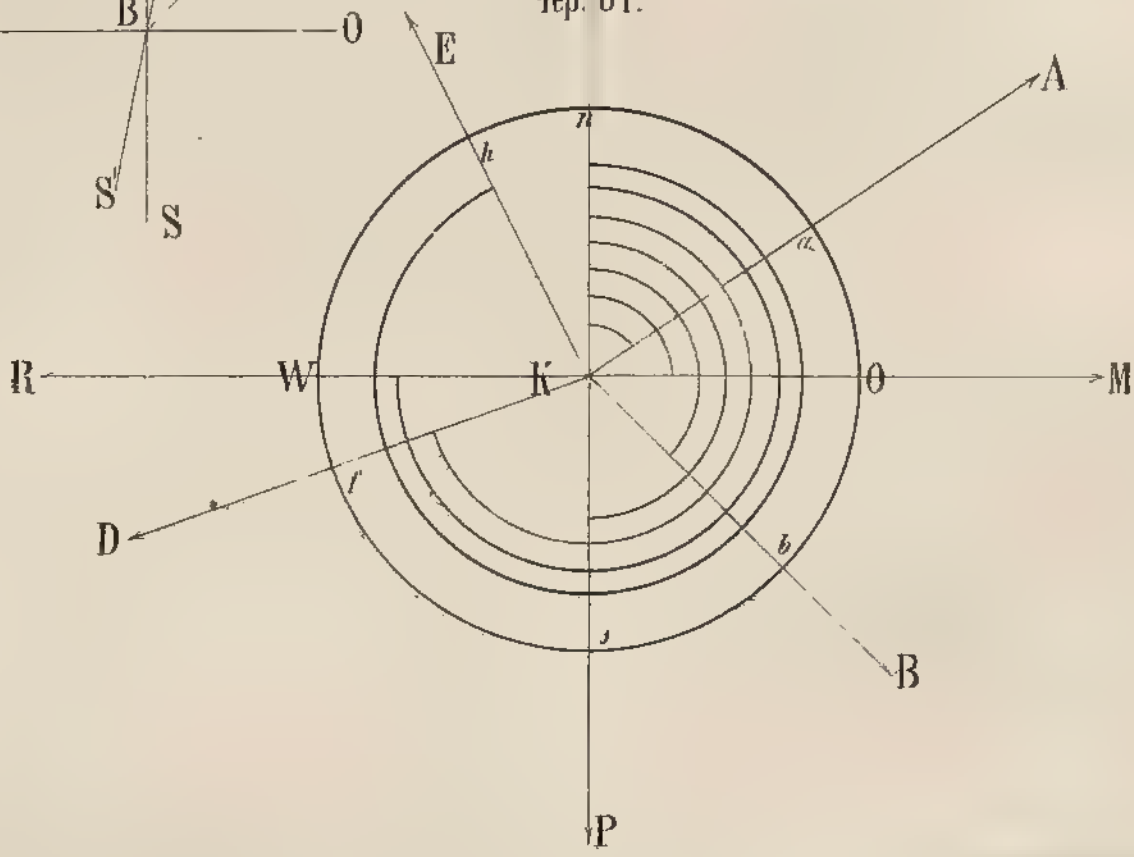

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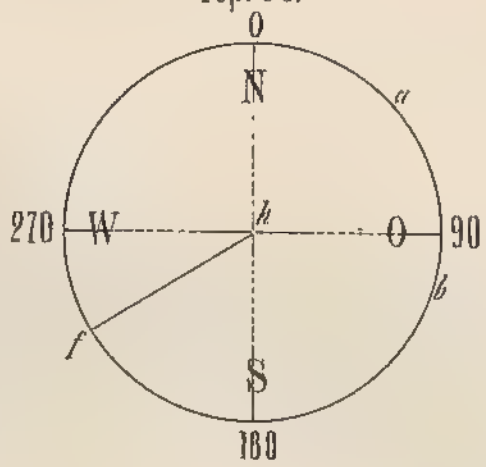

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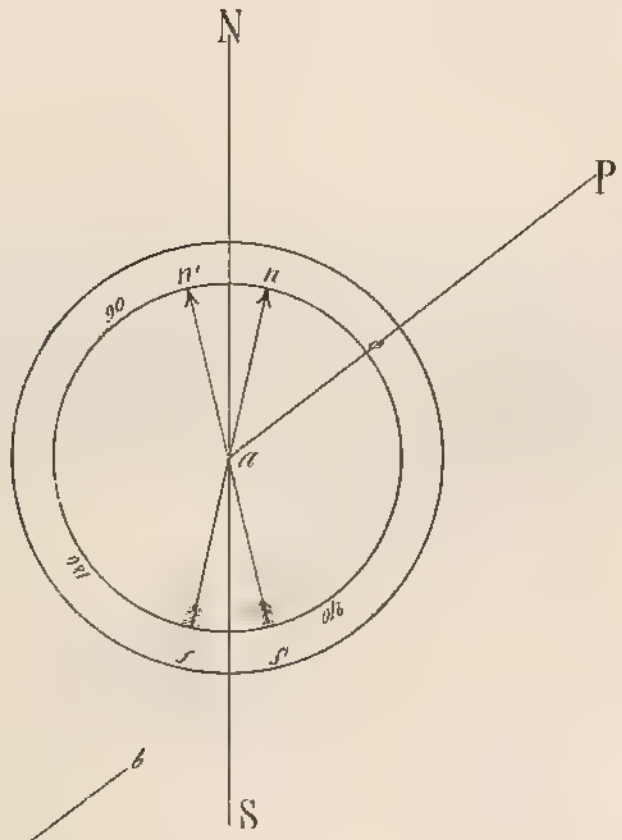

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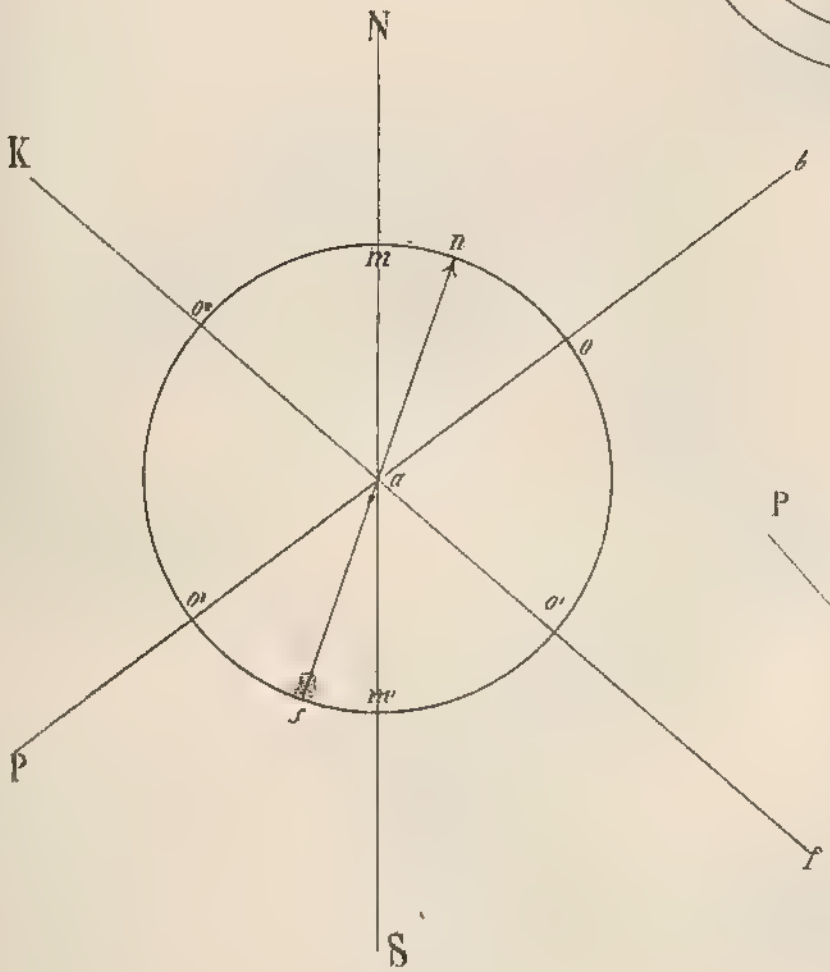
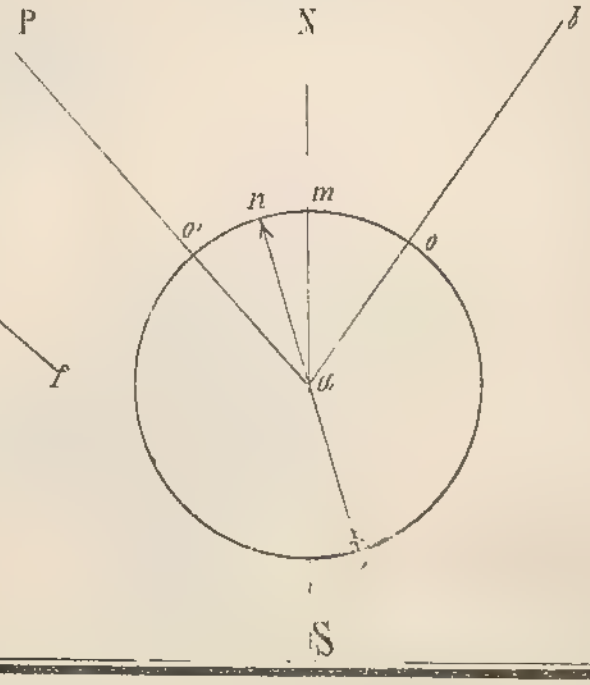


Чер 88



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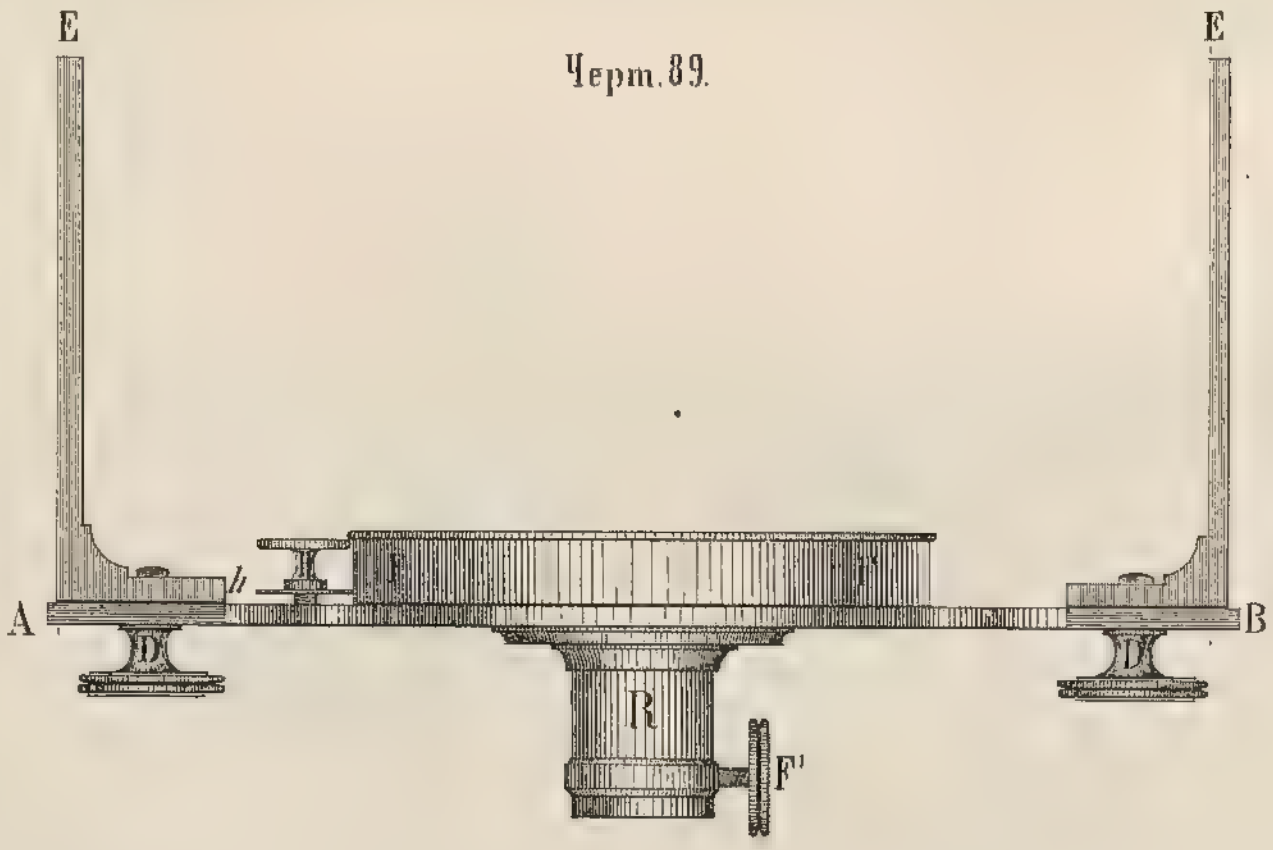

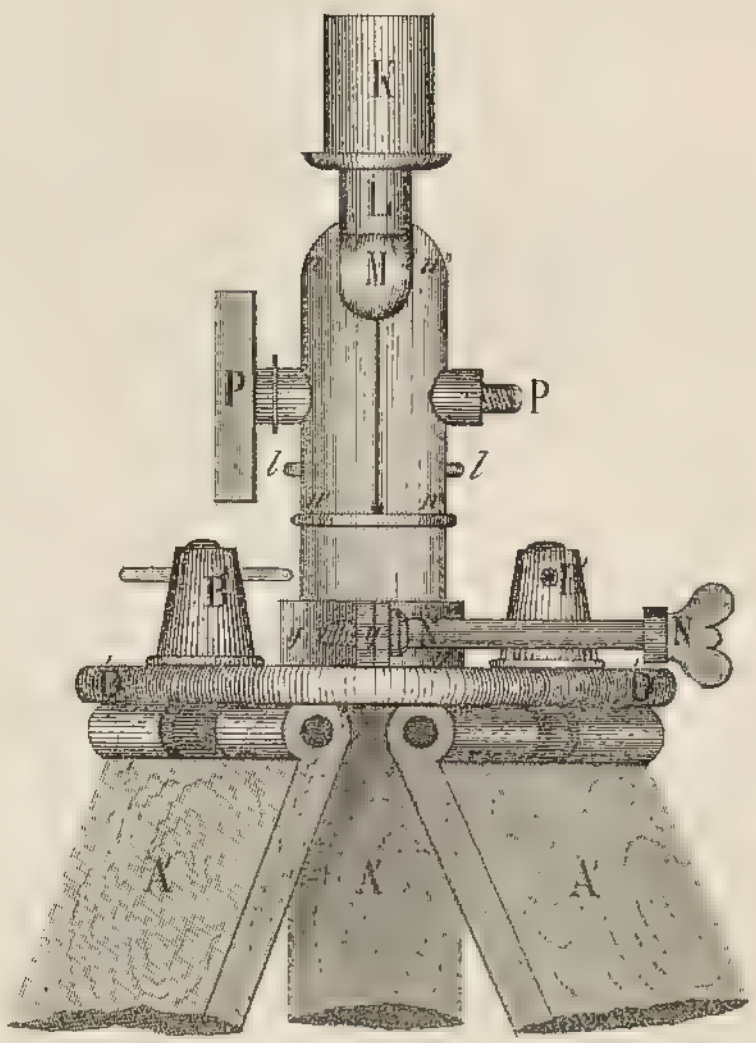

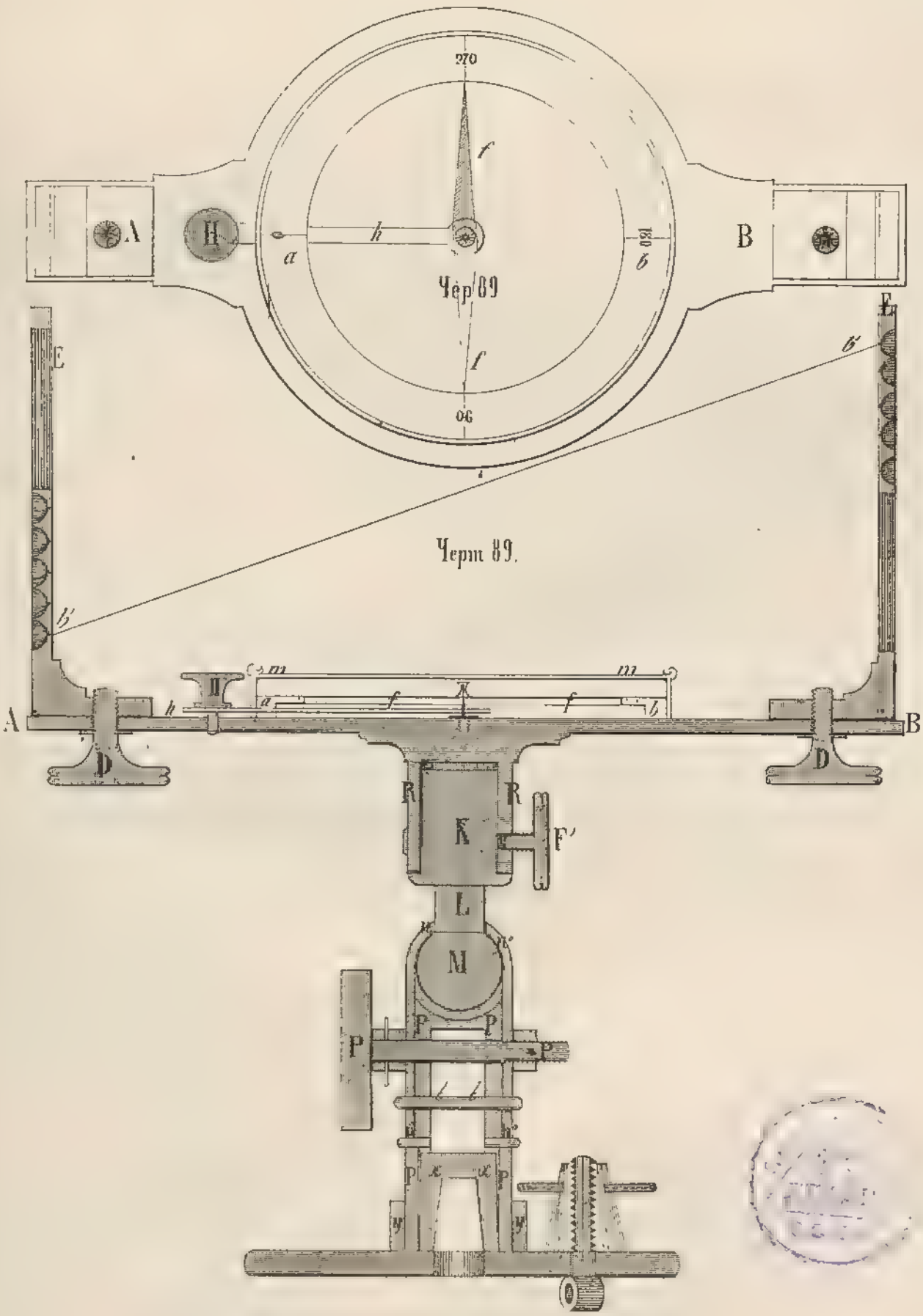
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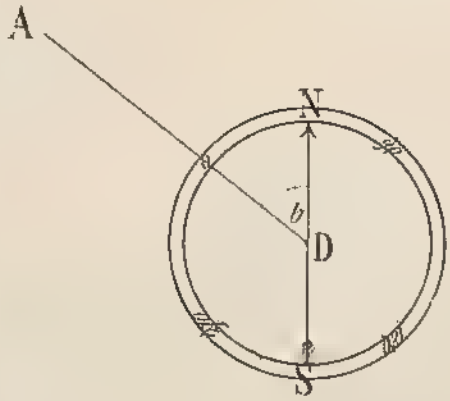
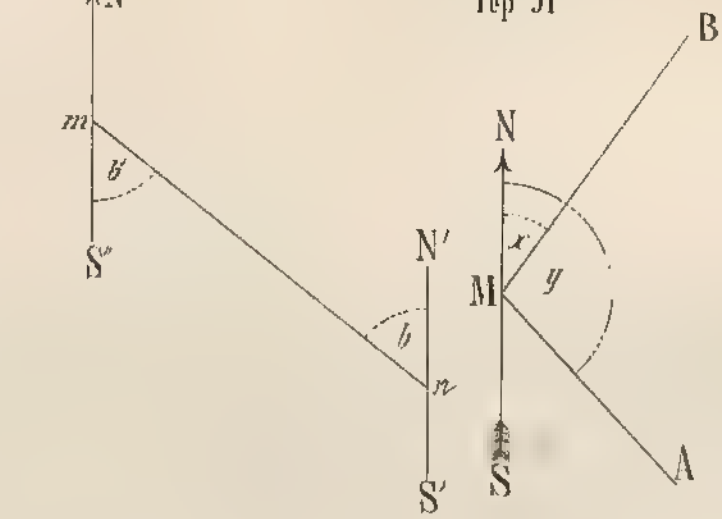
Чер. 90.



Чер 91



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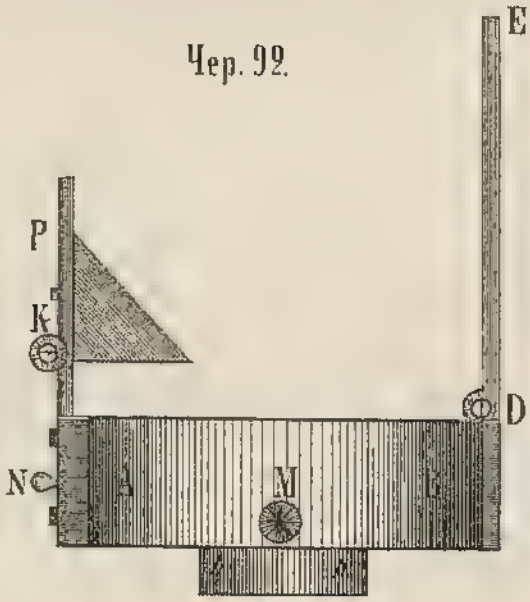

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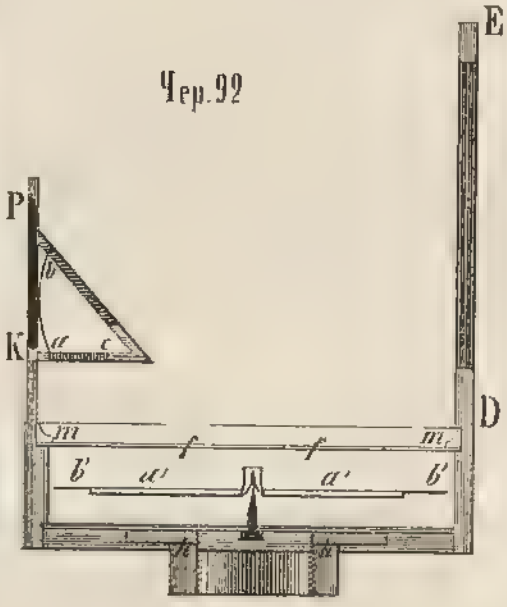

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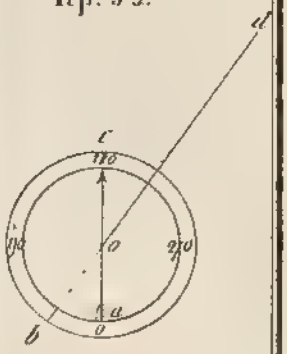

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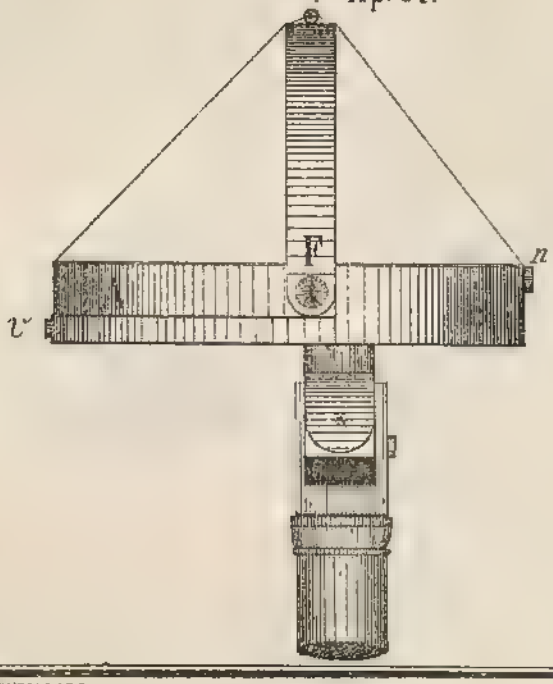

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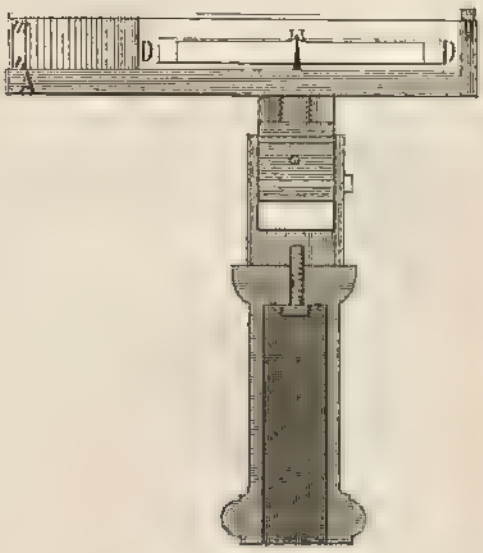

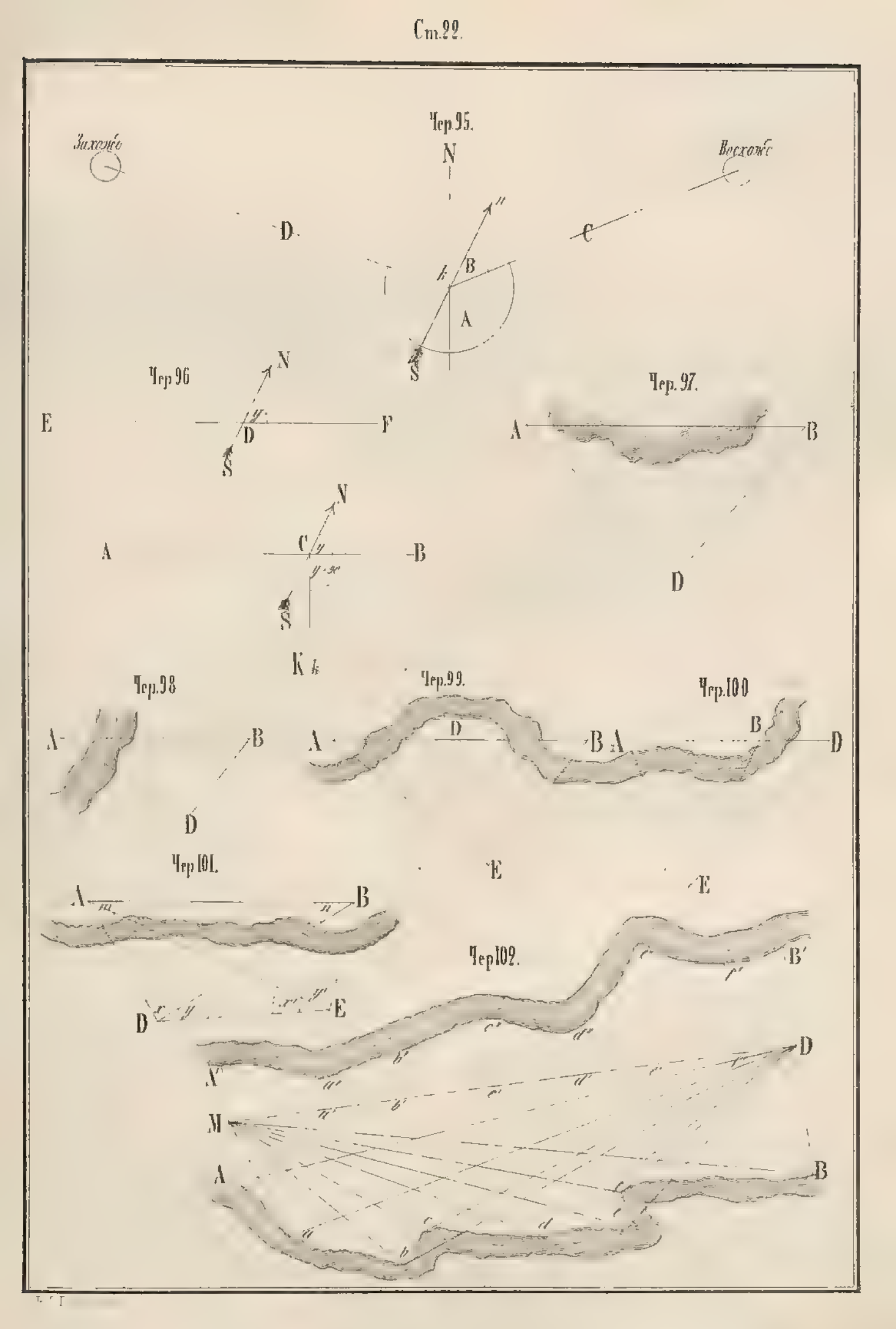
Чер. 95.
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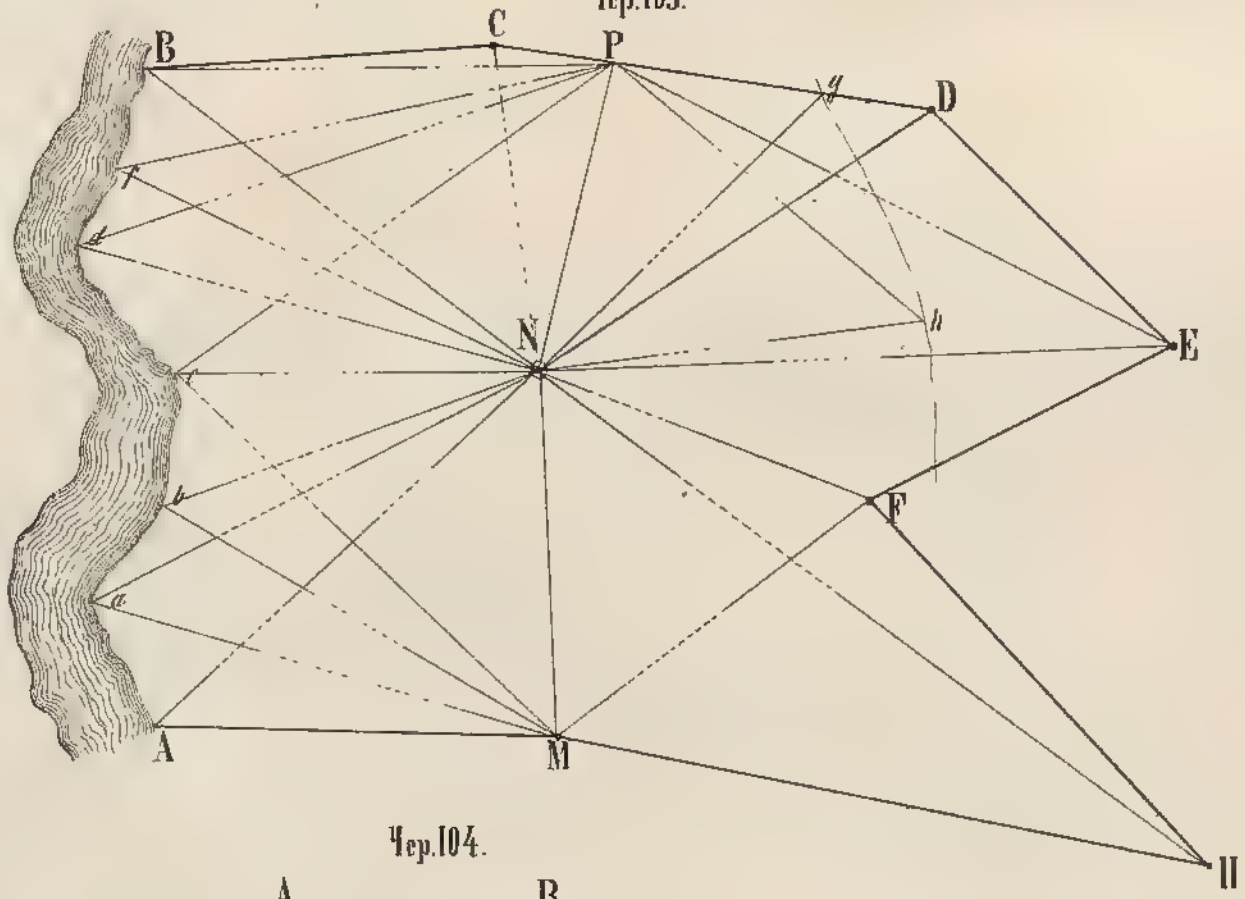
Чер.103.



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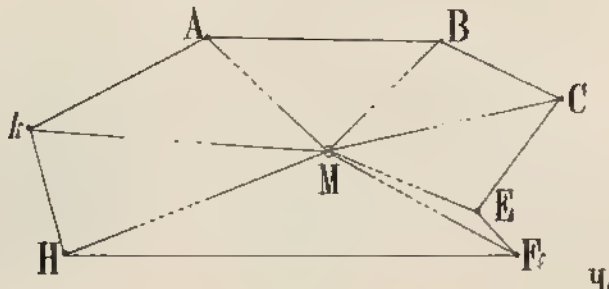

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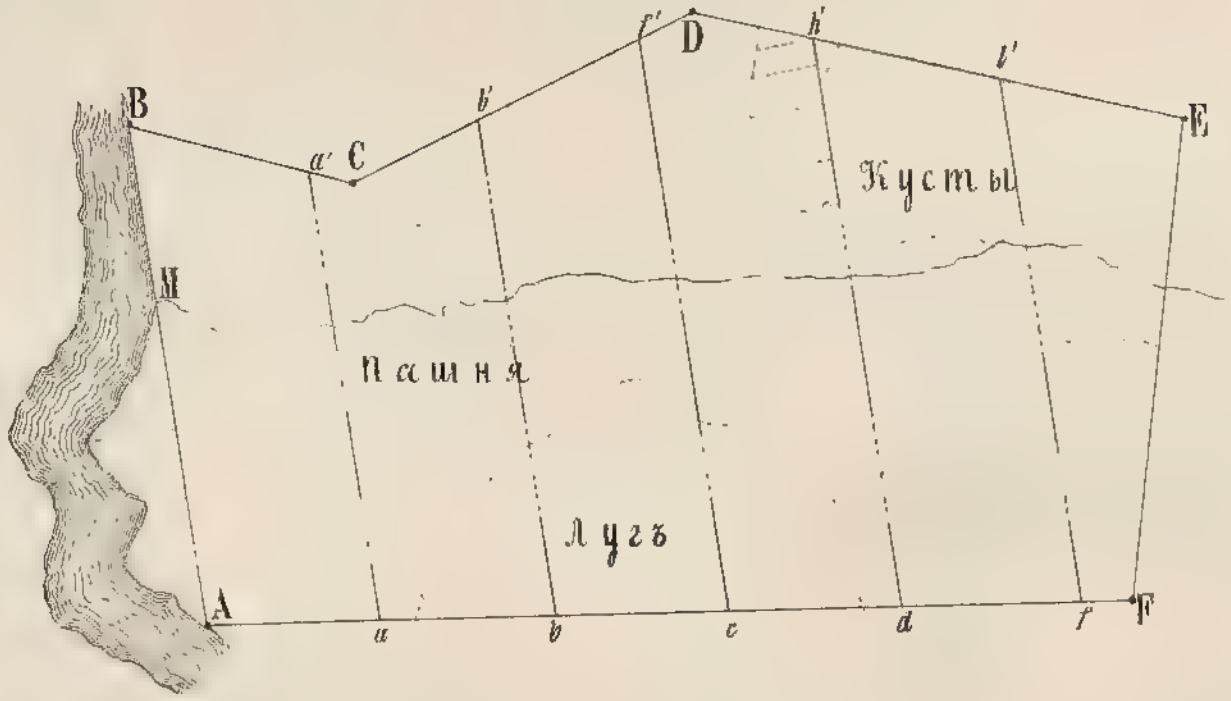
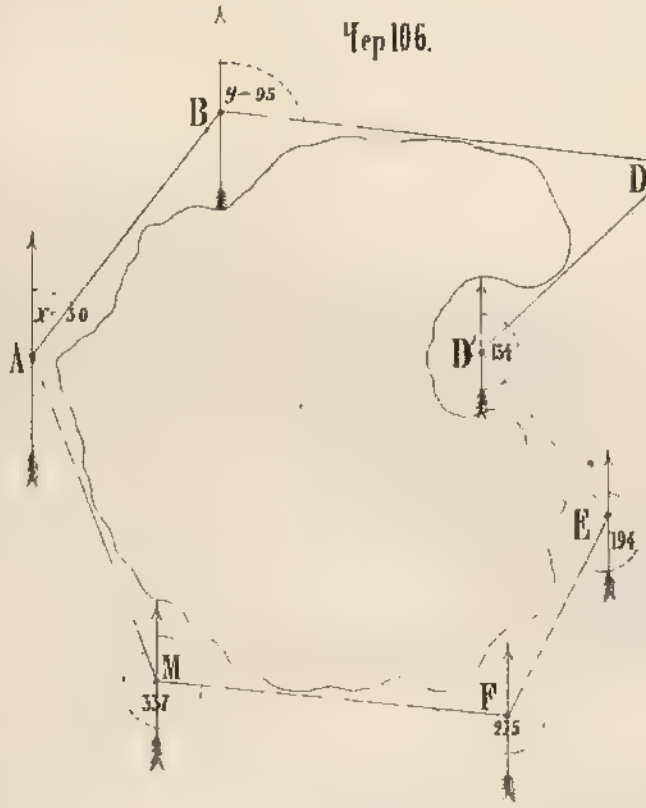
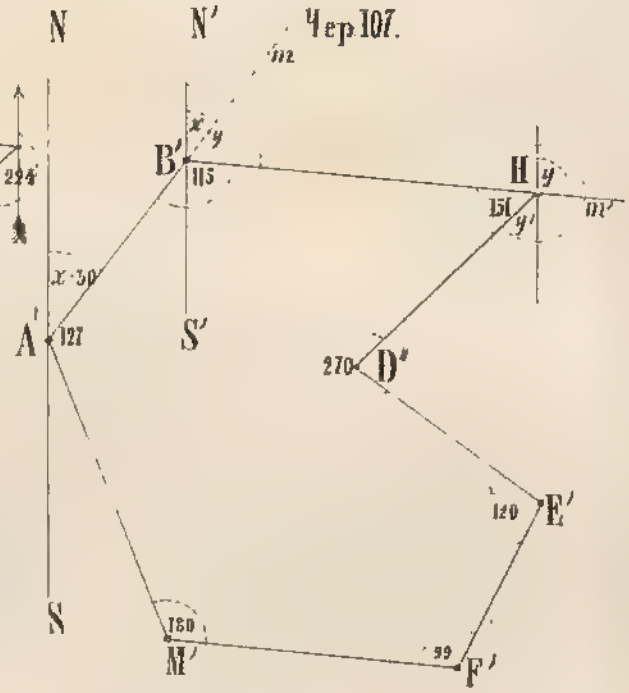


Чер. 106.



Чер. 107.



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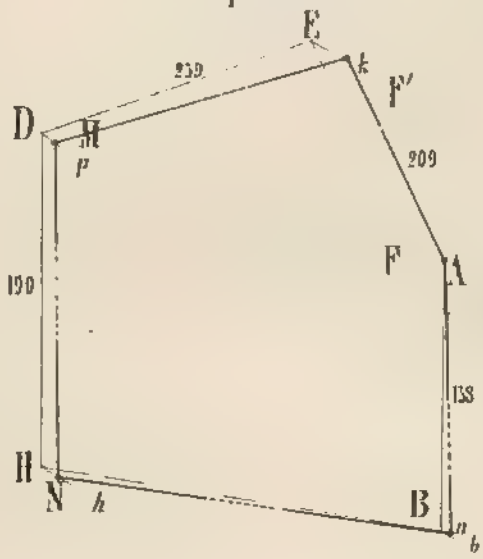

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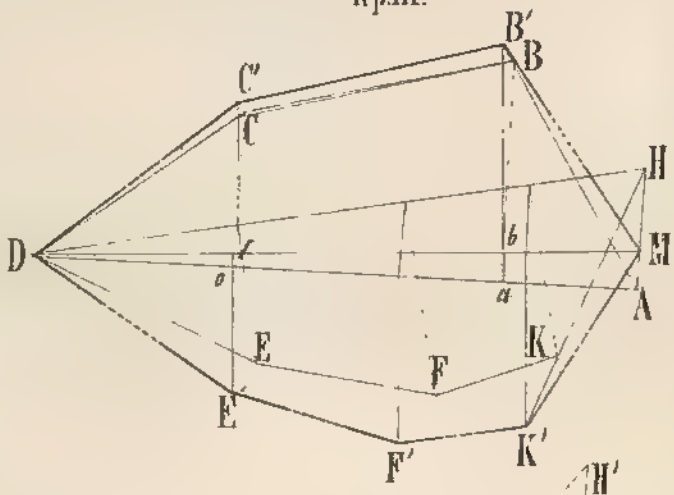
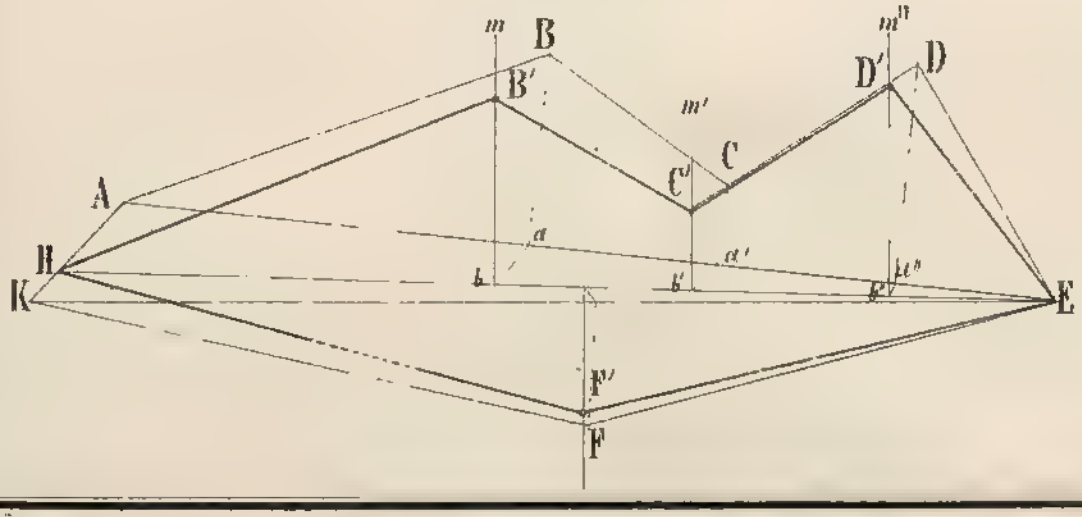


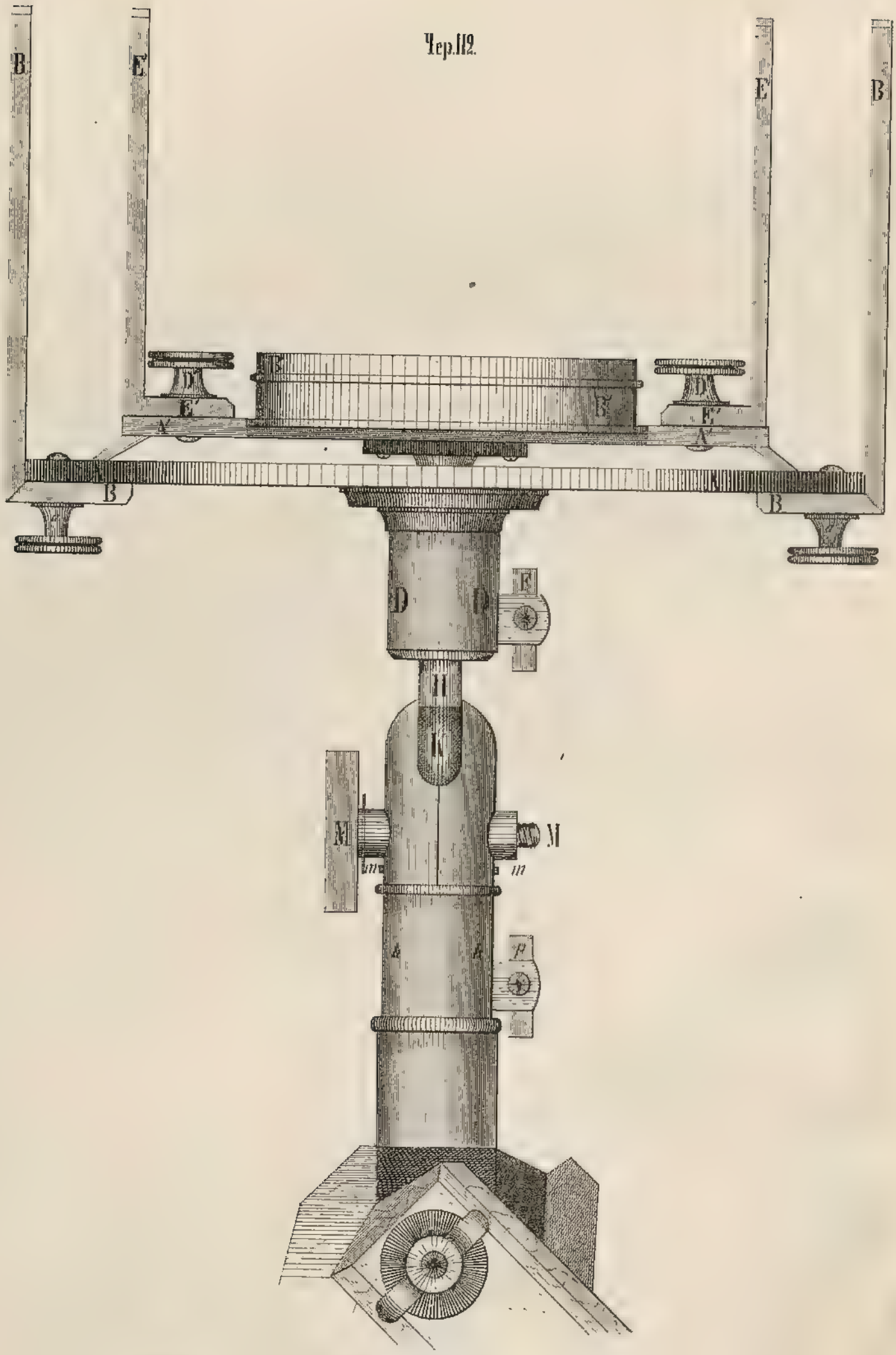
Чер. 109.

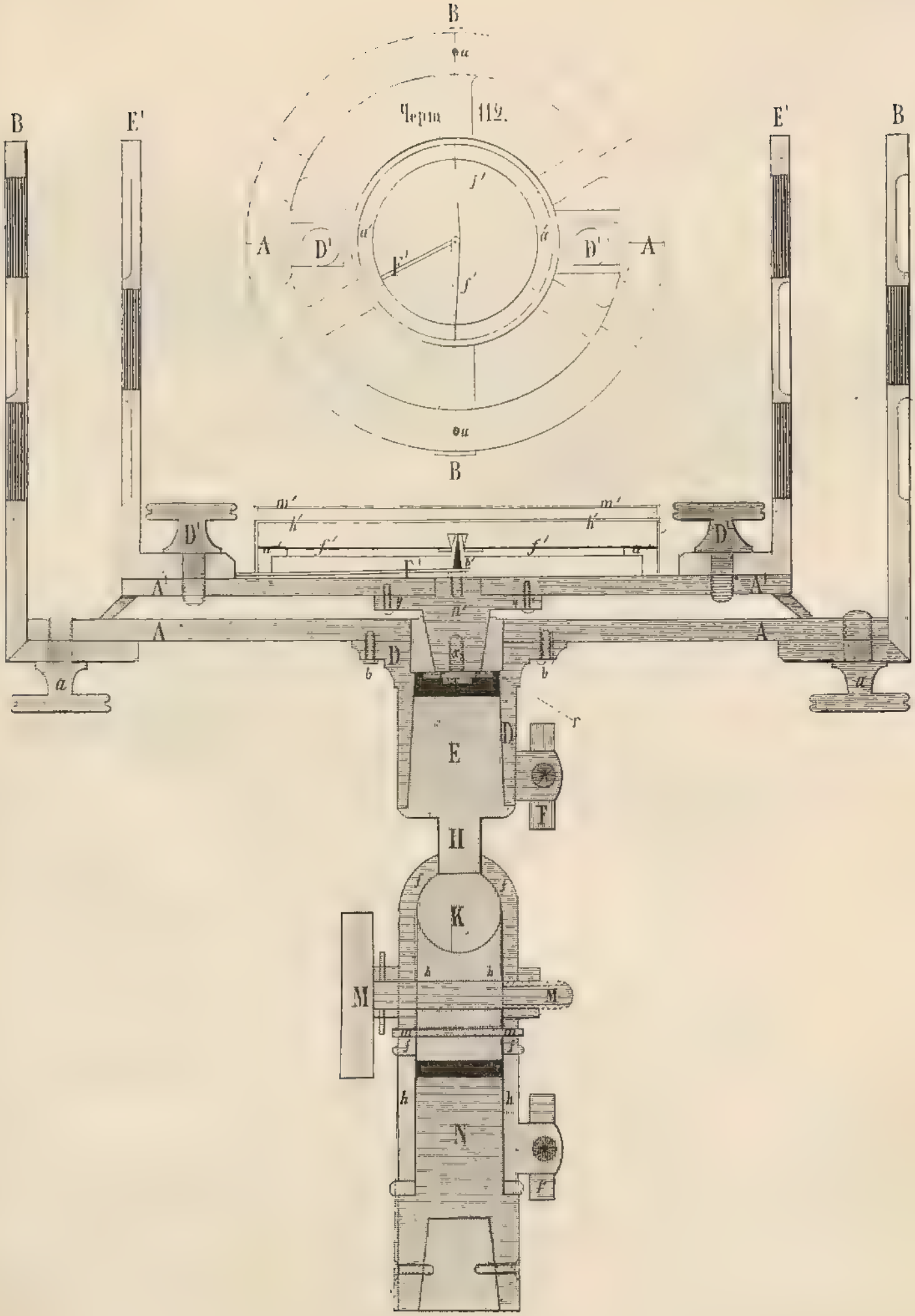


Чер. 110.

Ц. Григорьевъ

Чер. 112.

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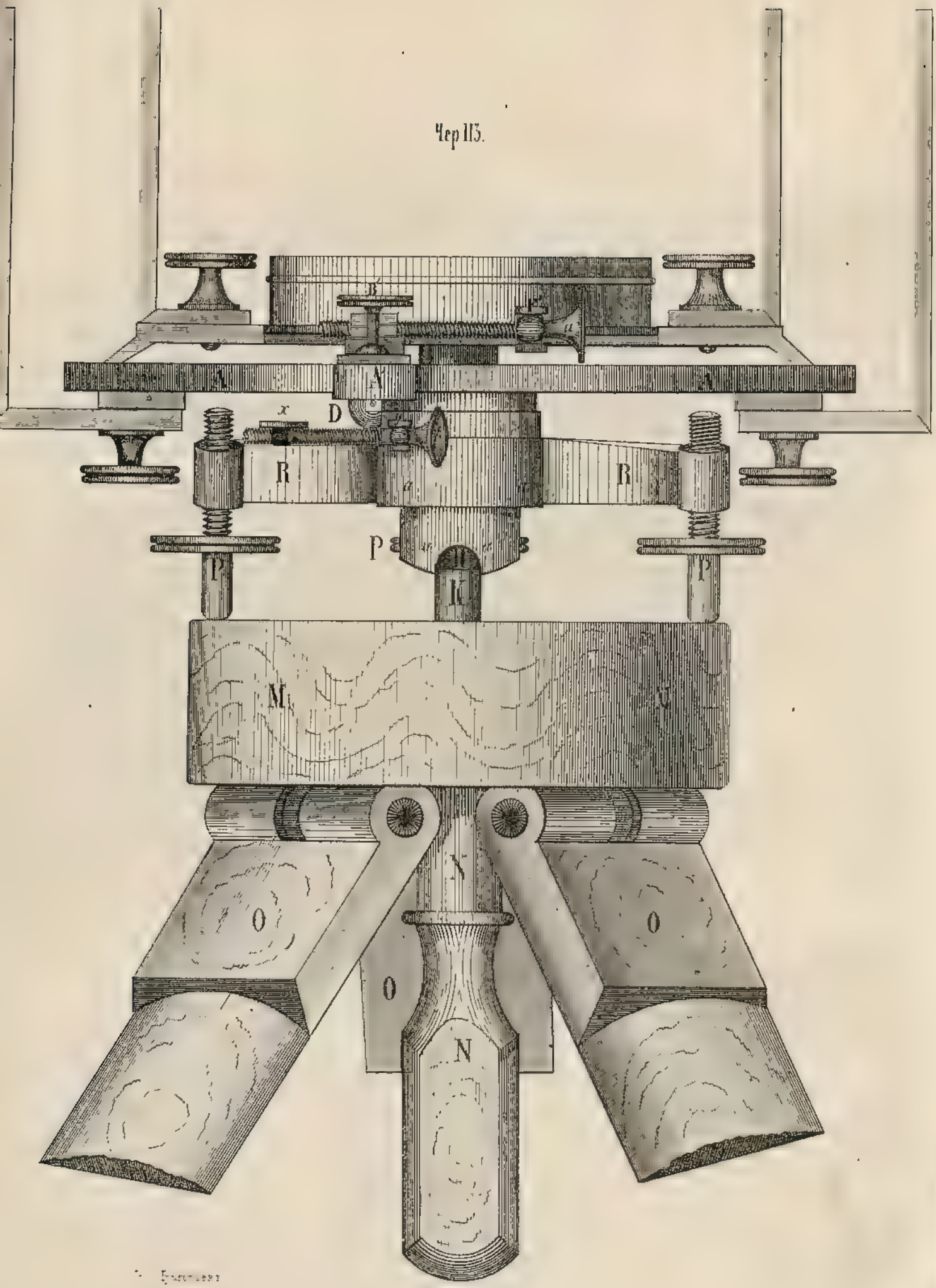
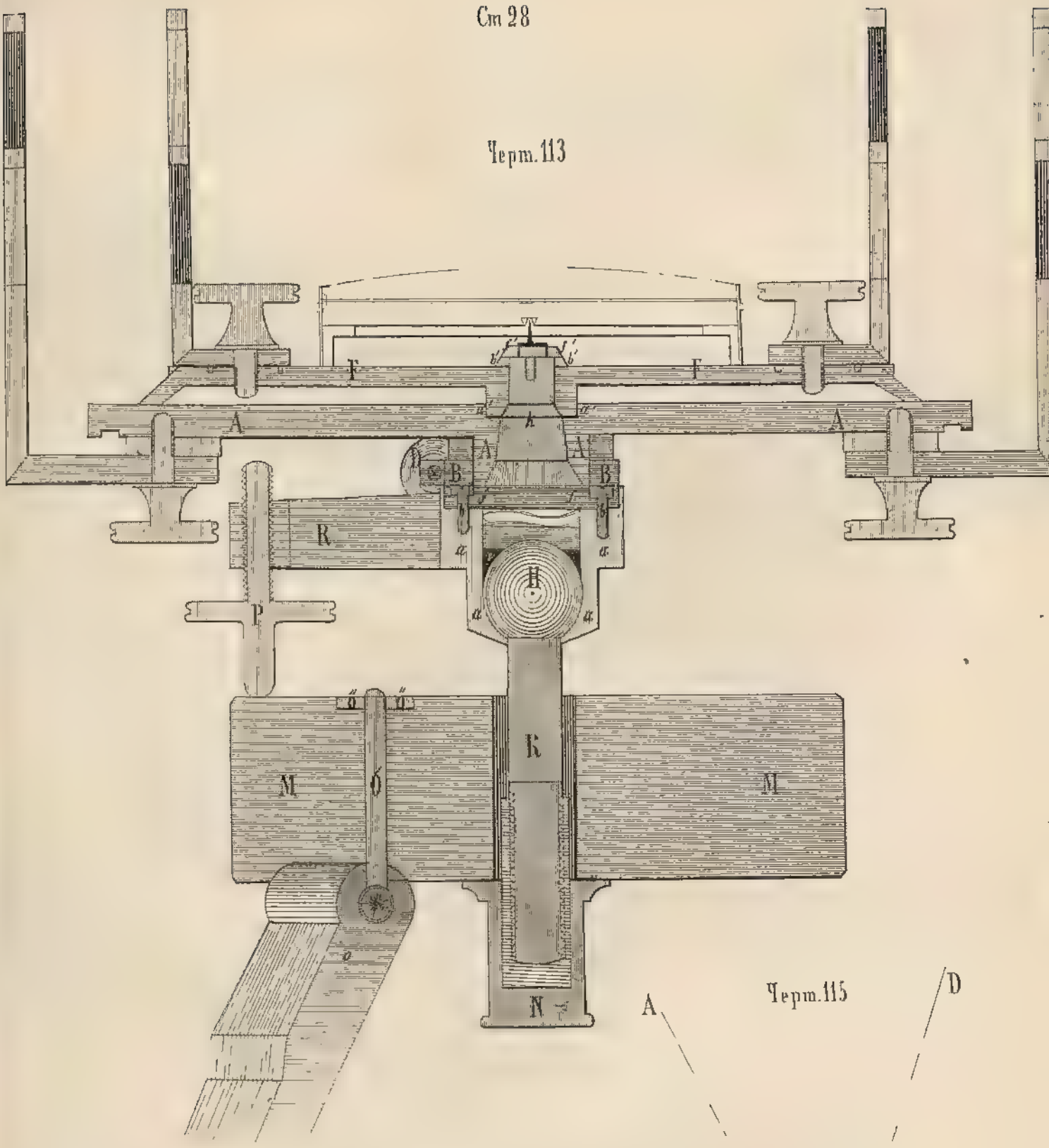
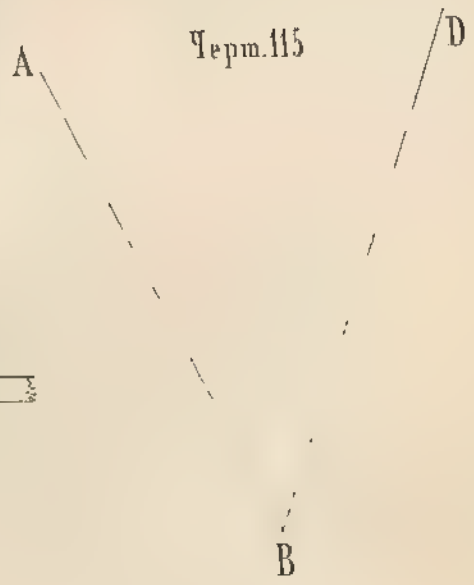
Чер 113.



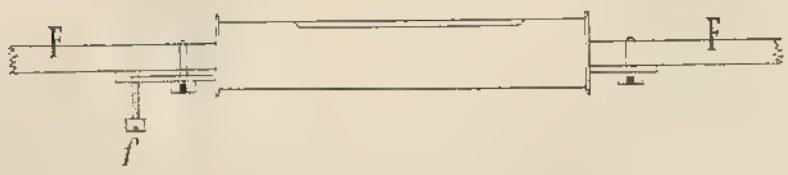
Черт. 113

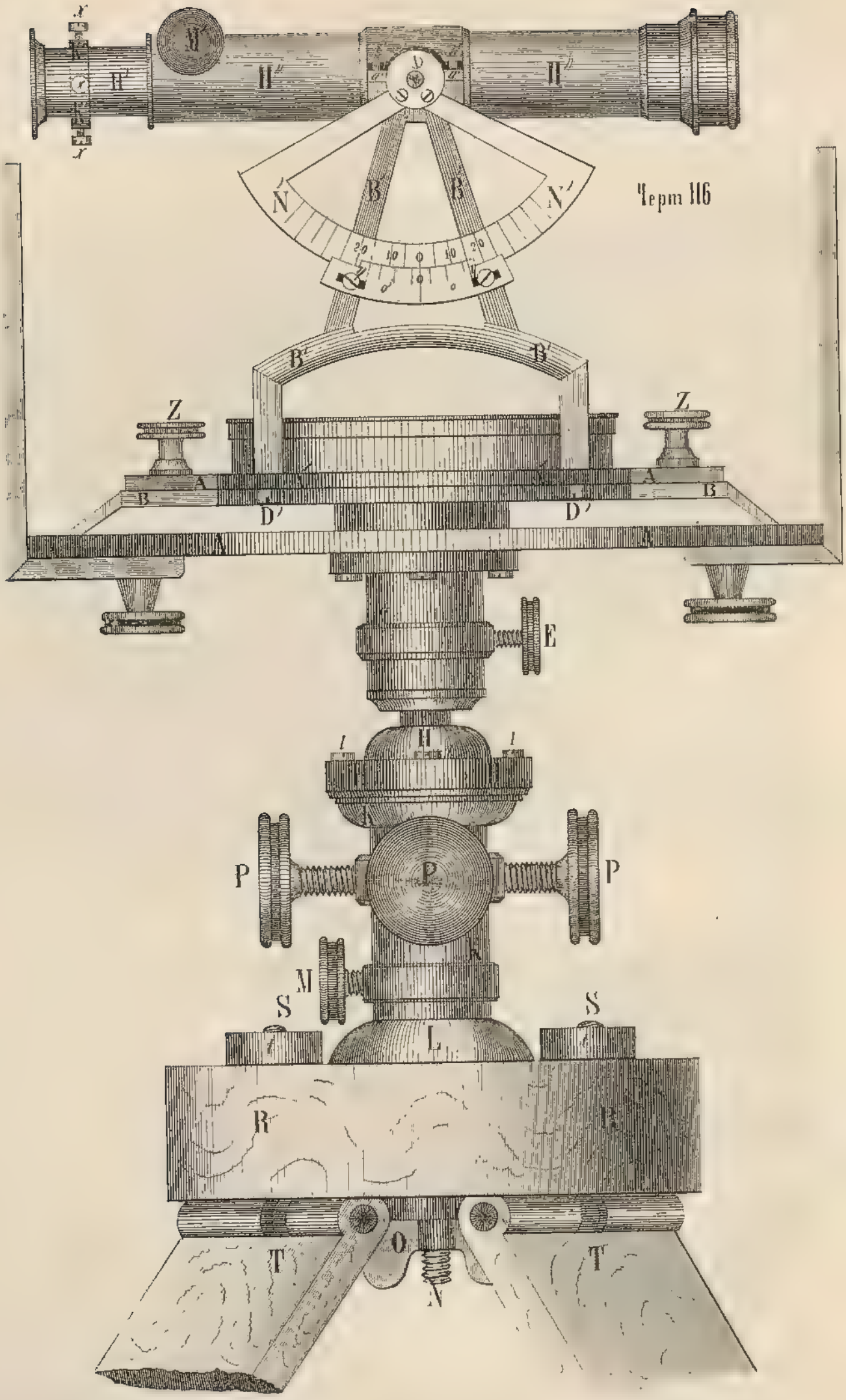


Черт. 115



Черт. 114.




Черт 116
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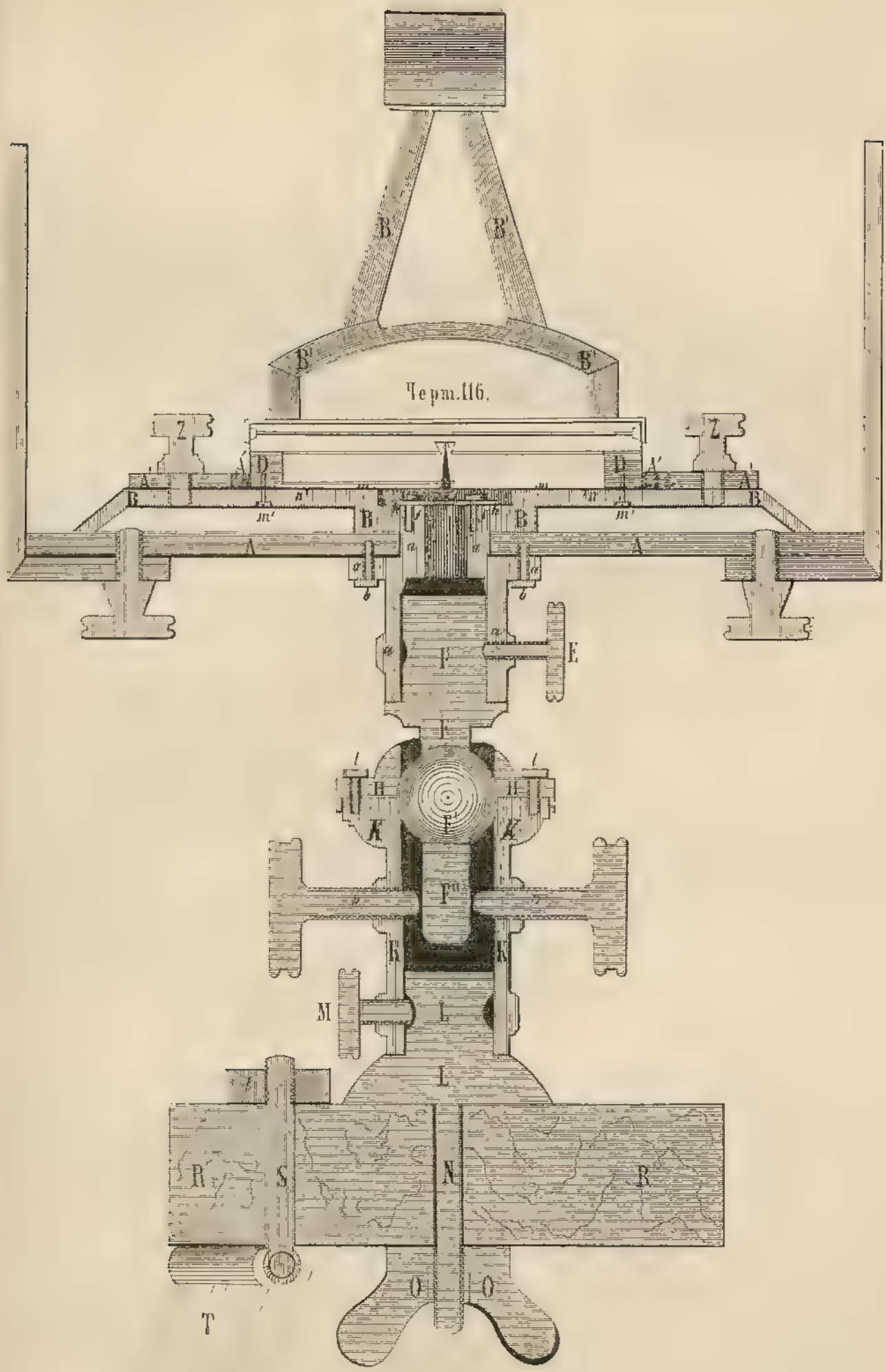
Черт. 116.
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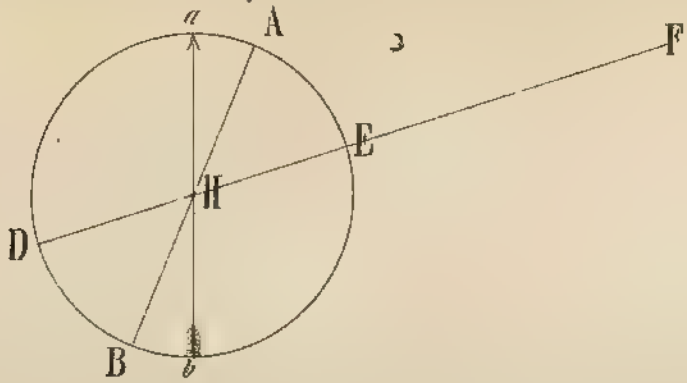
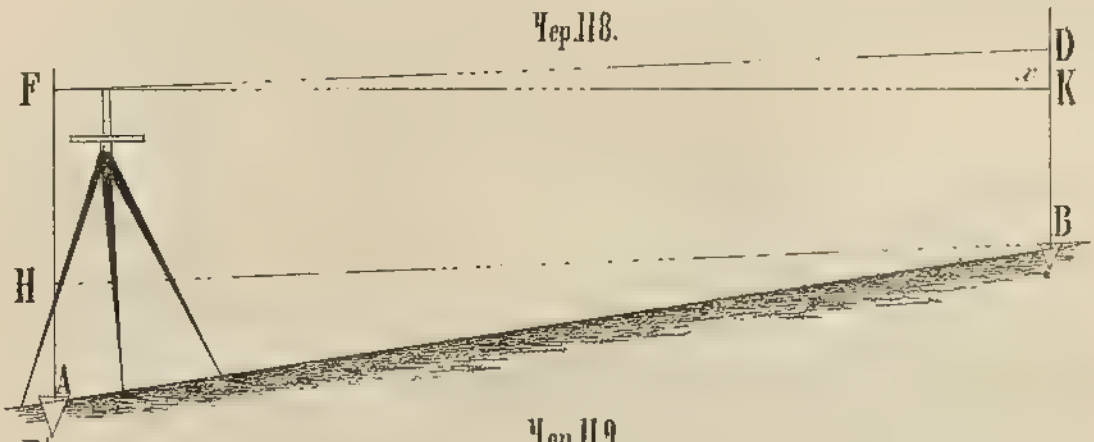
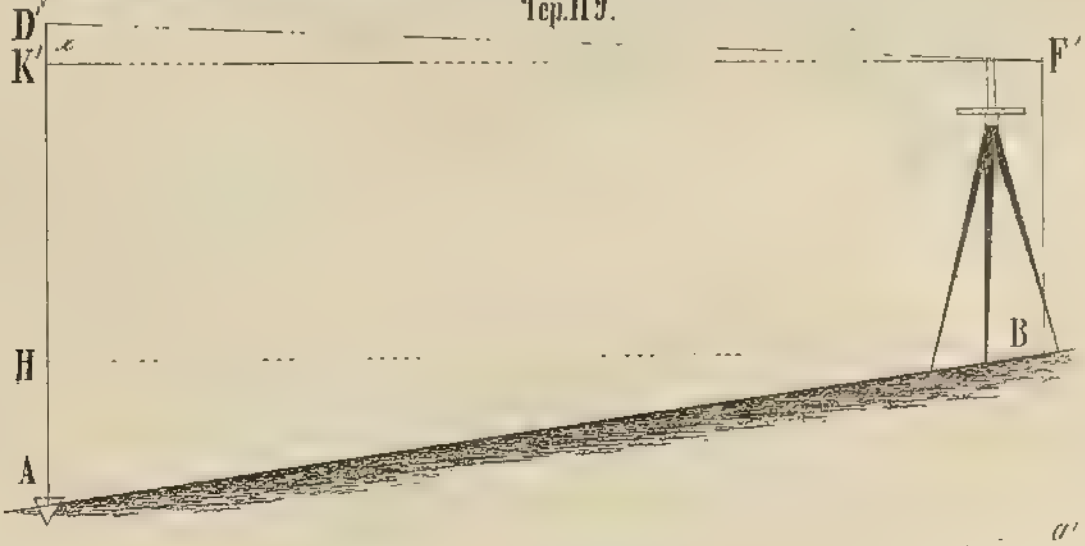
Чер. 117.



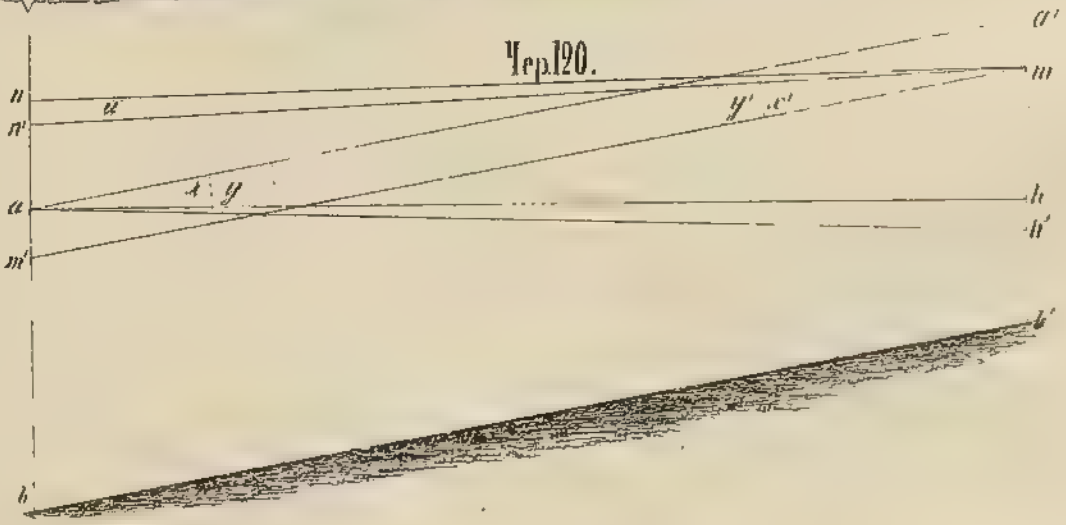
Чер. 118.



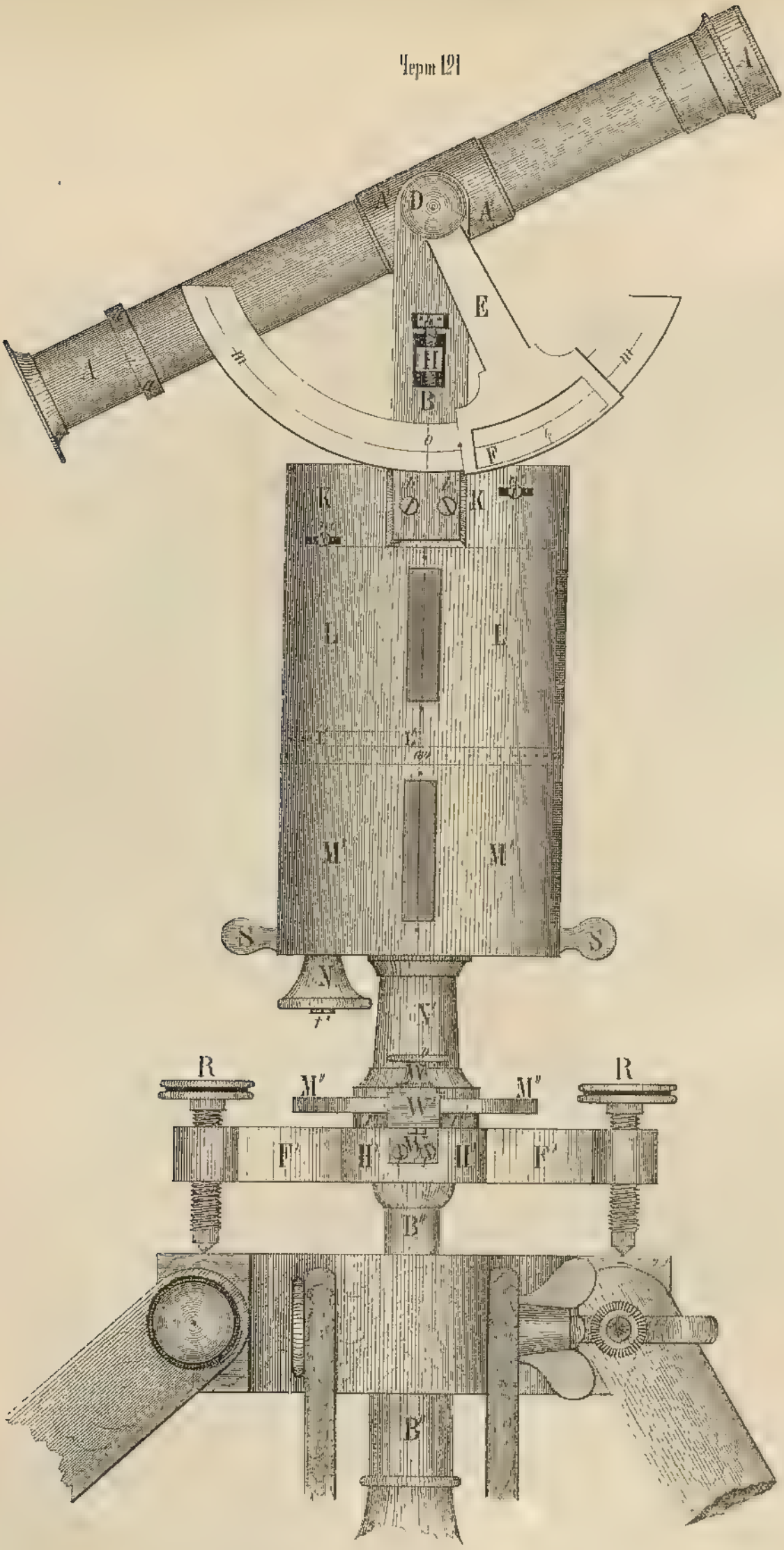
Чер. 119.



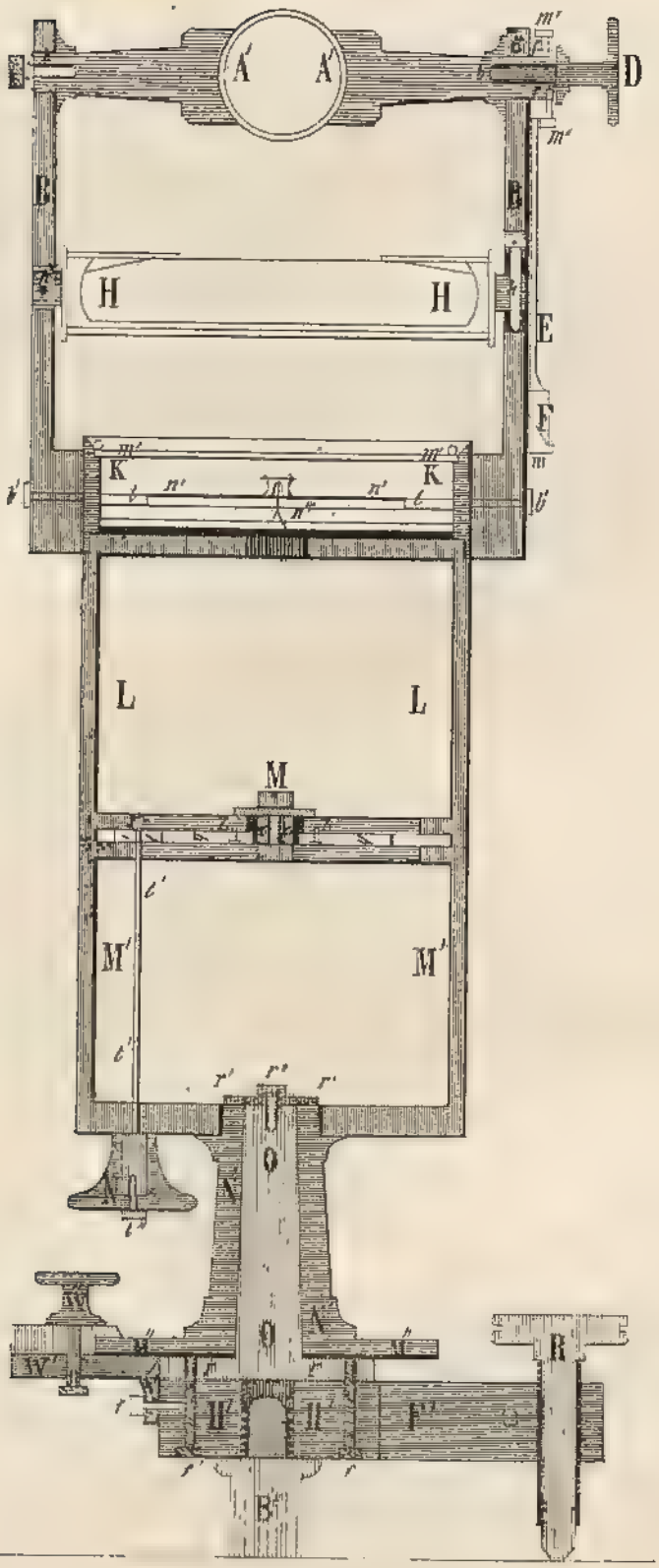
Чер. 120.



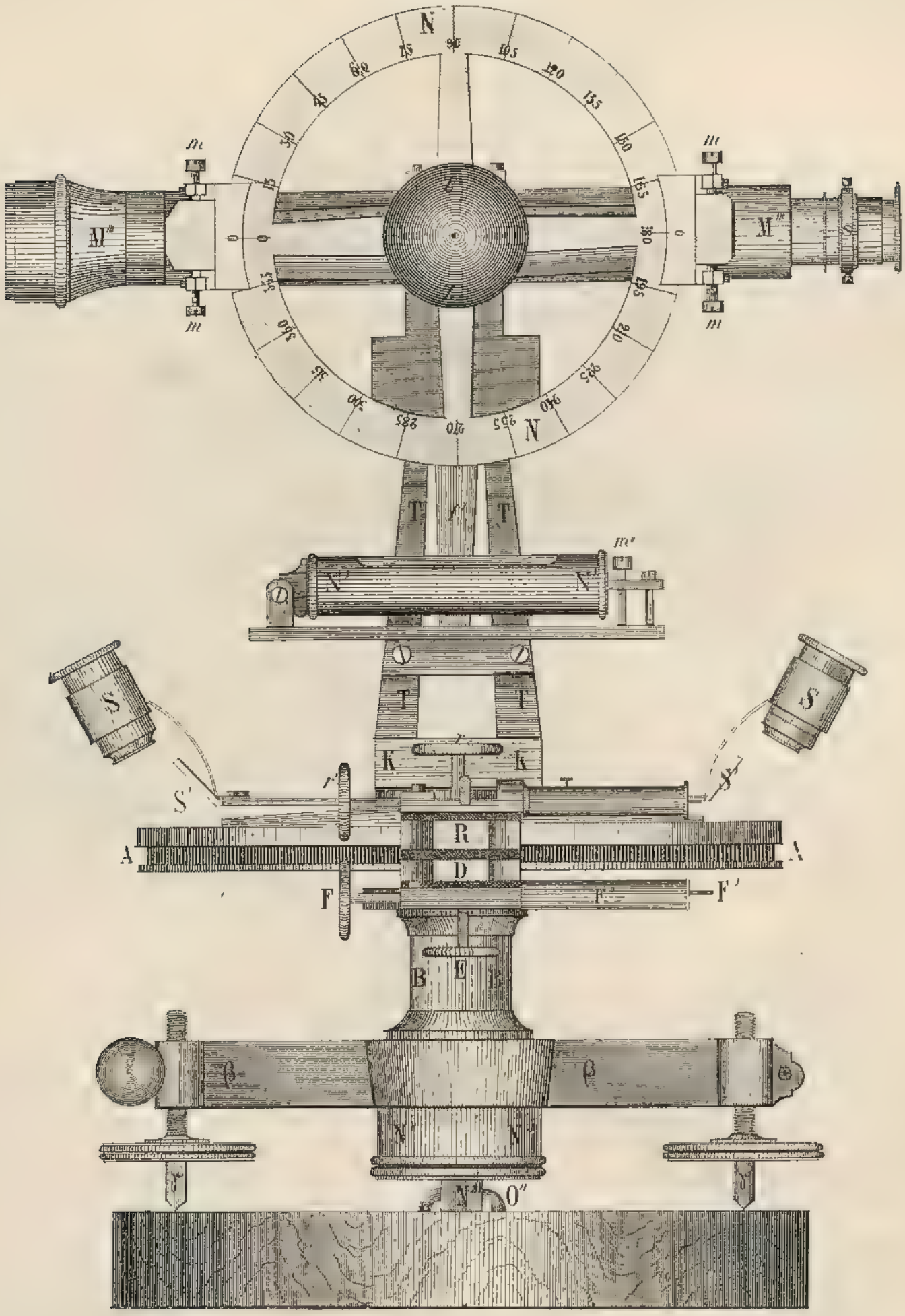
Черт 121



Чер. 191.



Черт. 122.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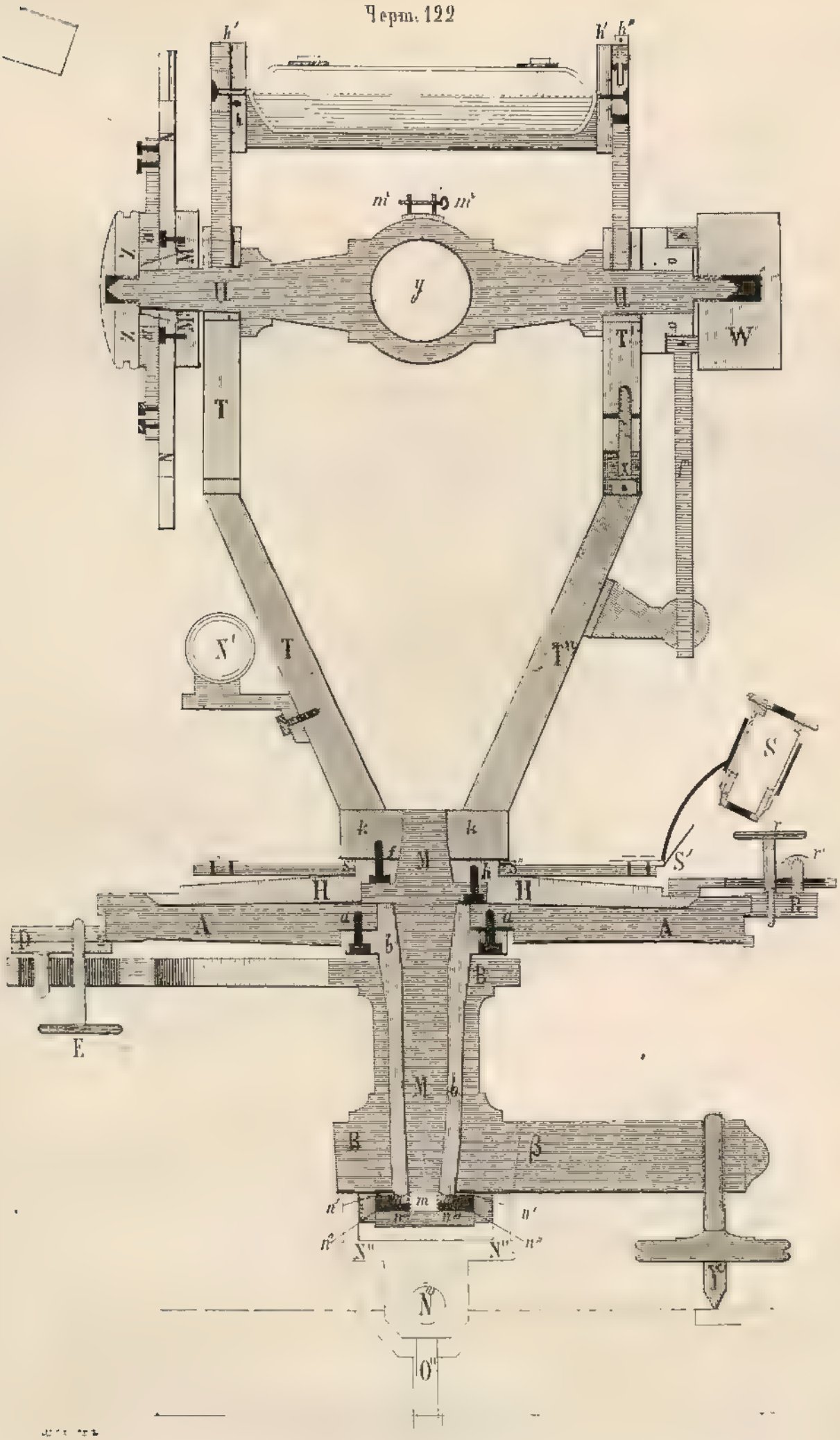
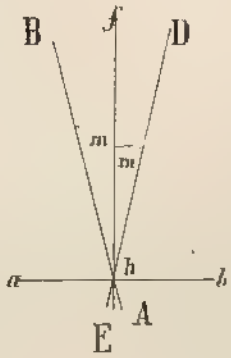
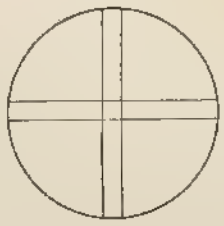
Черт. 122



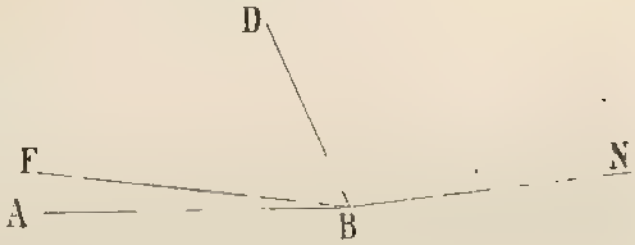
Чер 123



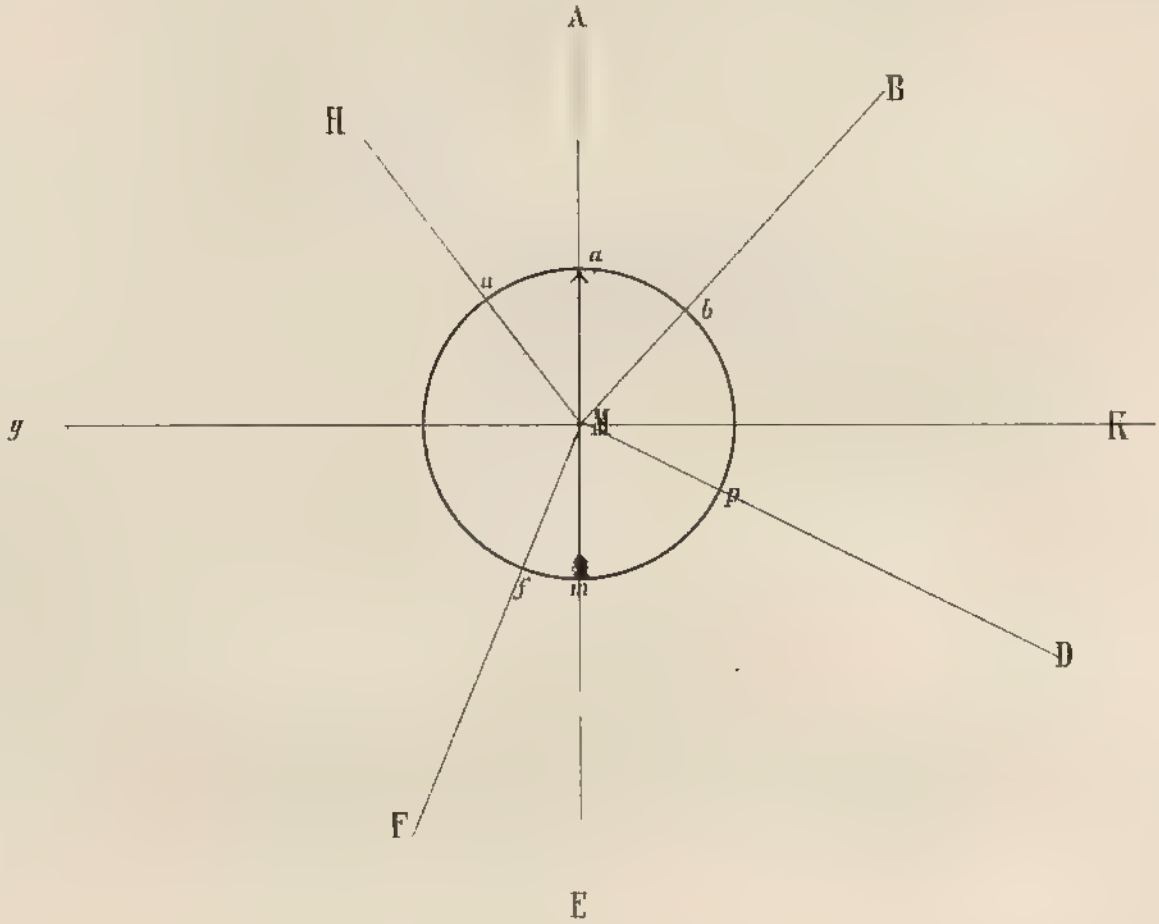
Чер 124.



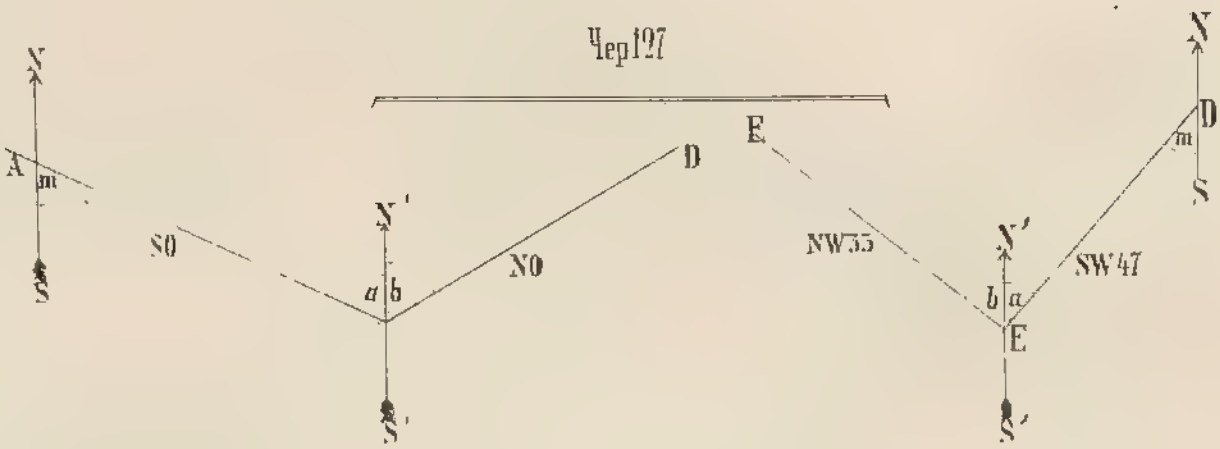
Чер 125



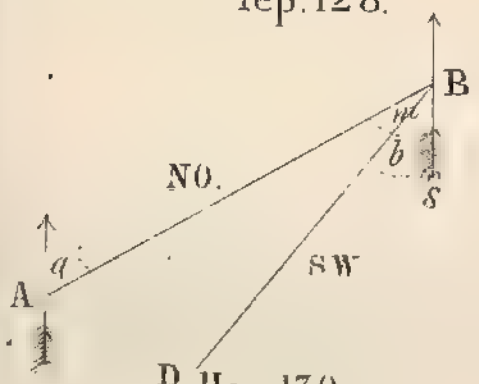
Чер 126.



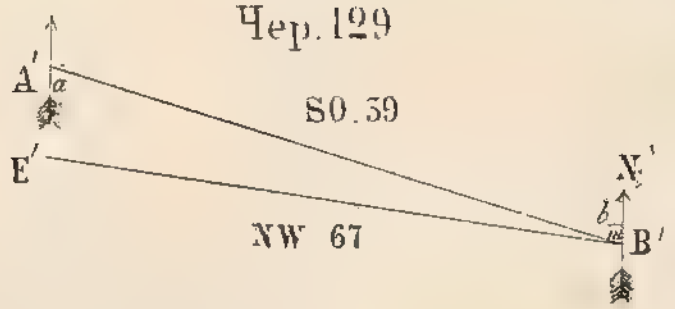
Чер 127



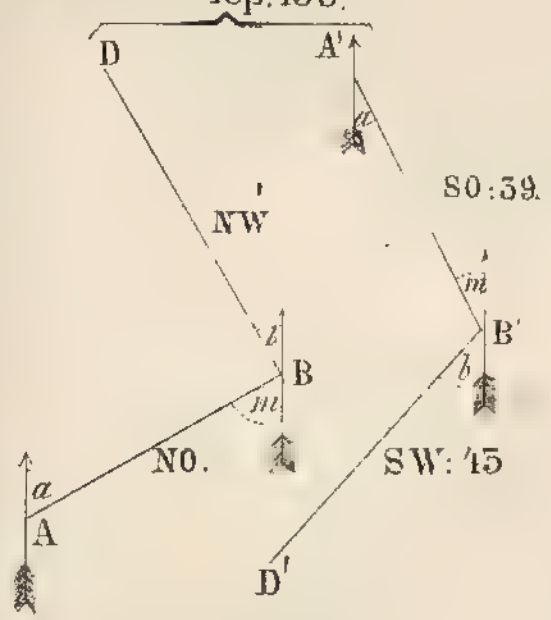
Чер. 128.



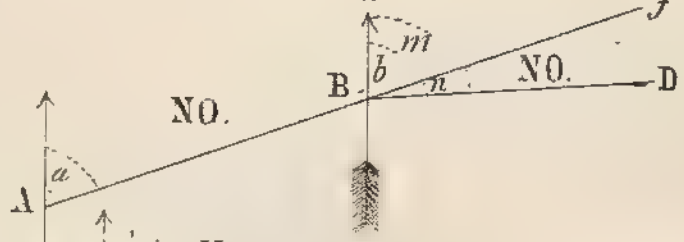
Чер. 129



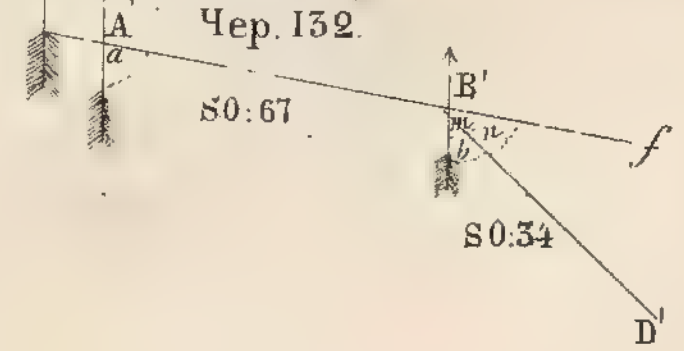
Чер. 130.



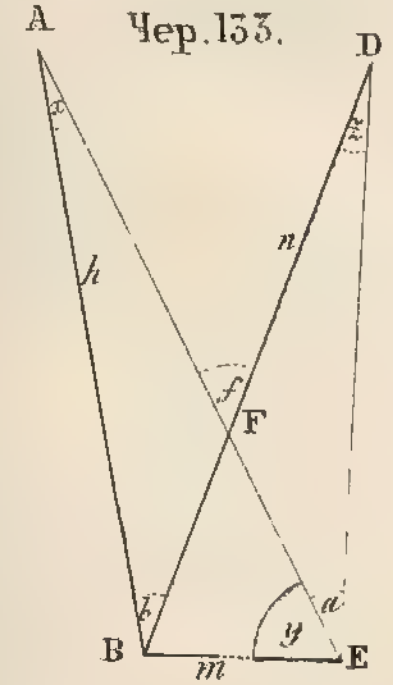
Чер. 131.



Чер. 132.



Чер. 133.



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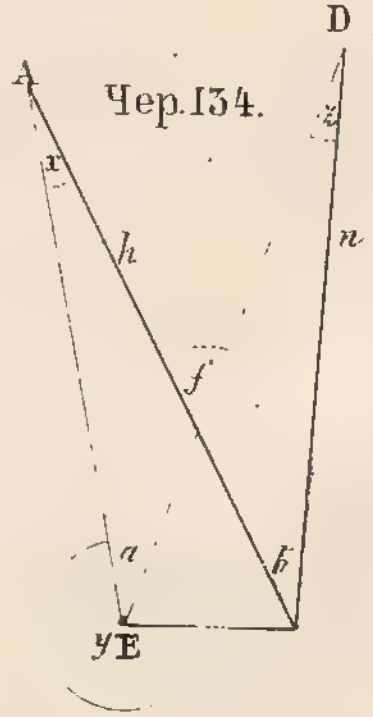
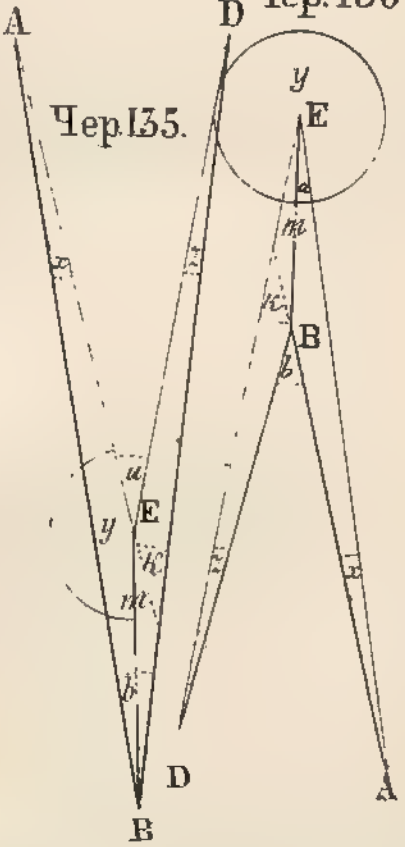
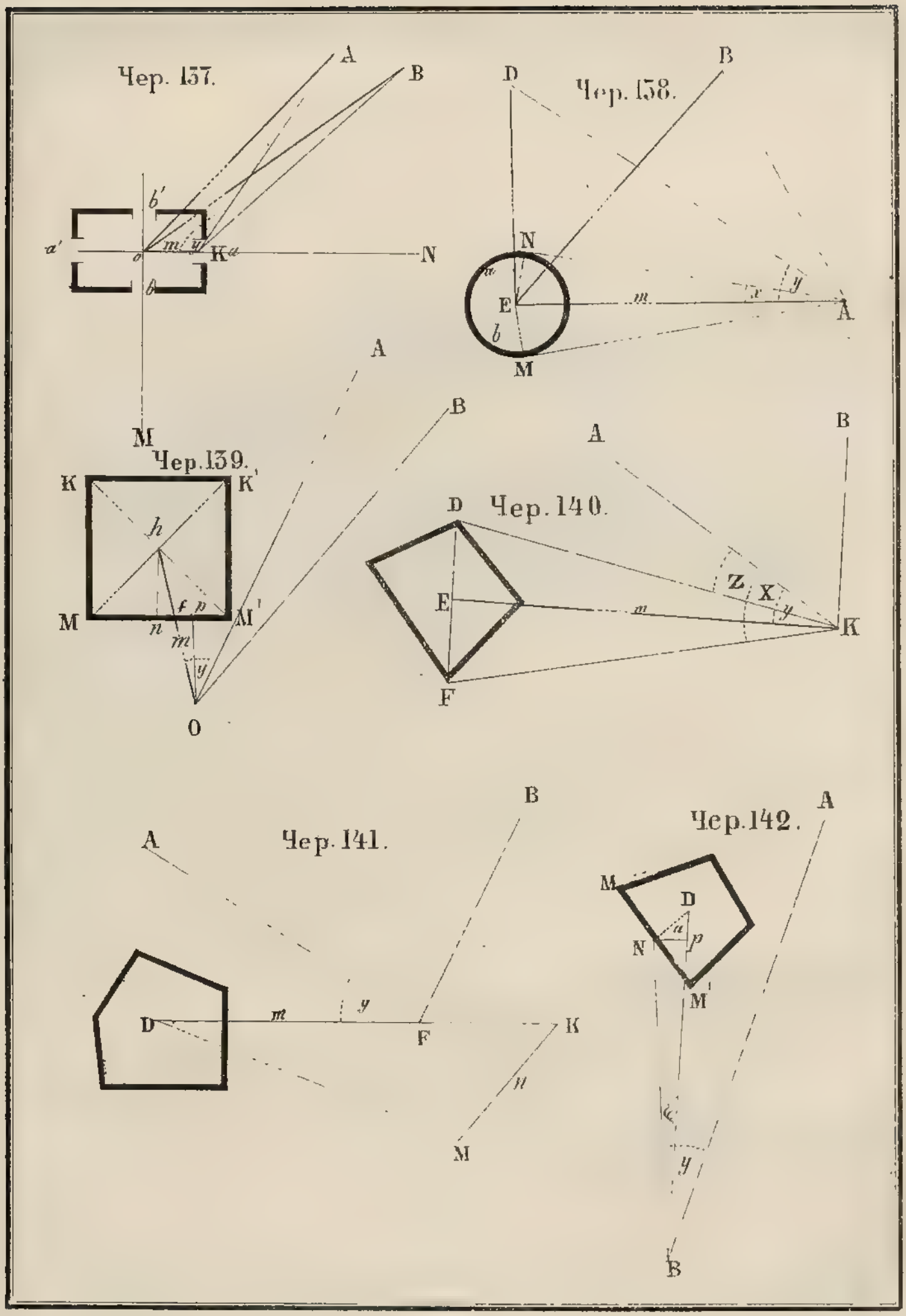


Чер. 135.



Чер. 136


Чер. 137.
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Чер. 138.
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Чер. 139.
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Чер. 140.
D
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X
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K
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Чер. 141.
A
B
D
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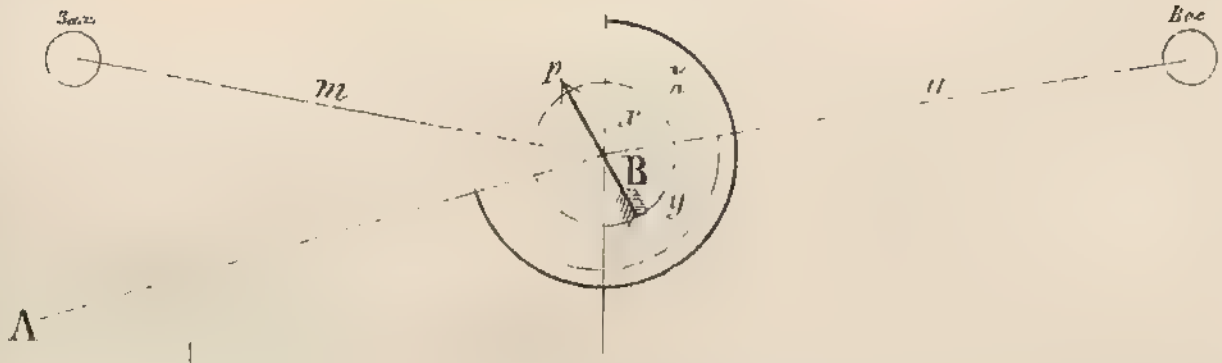
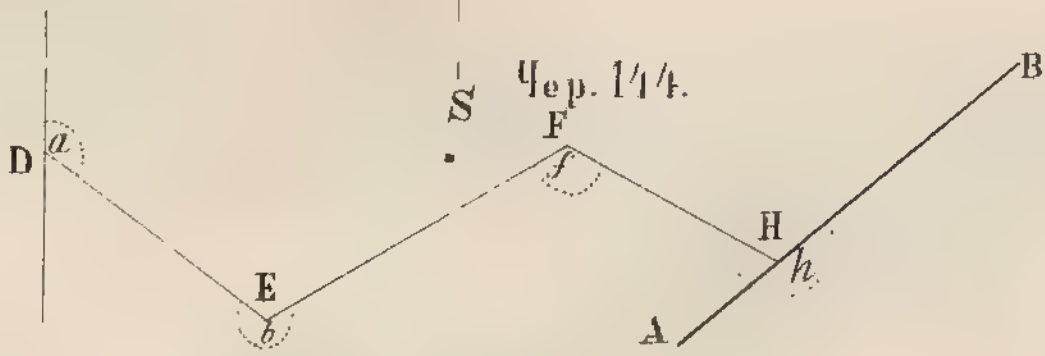
Чер. 142.
A
M
D
a
N
p
M'
y
B

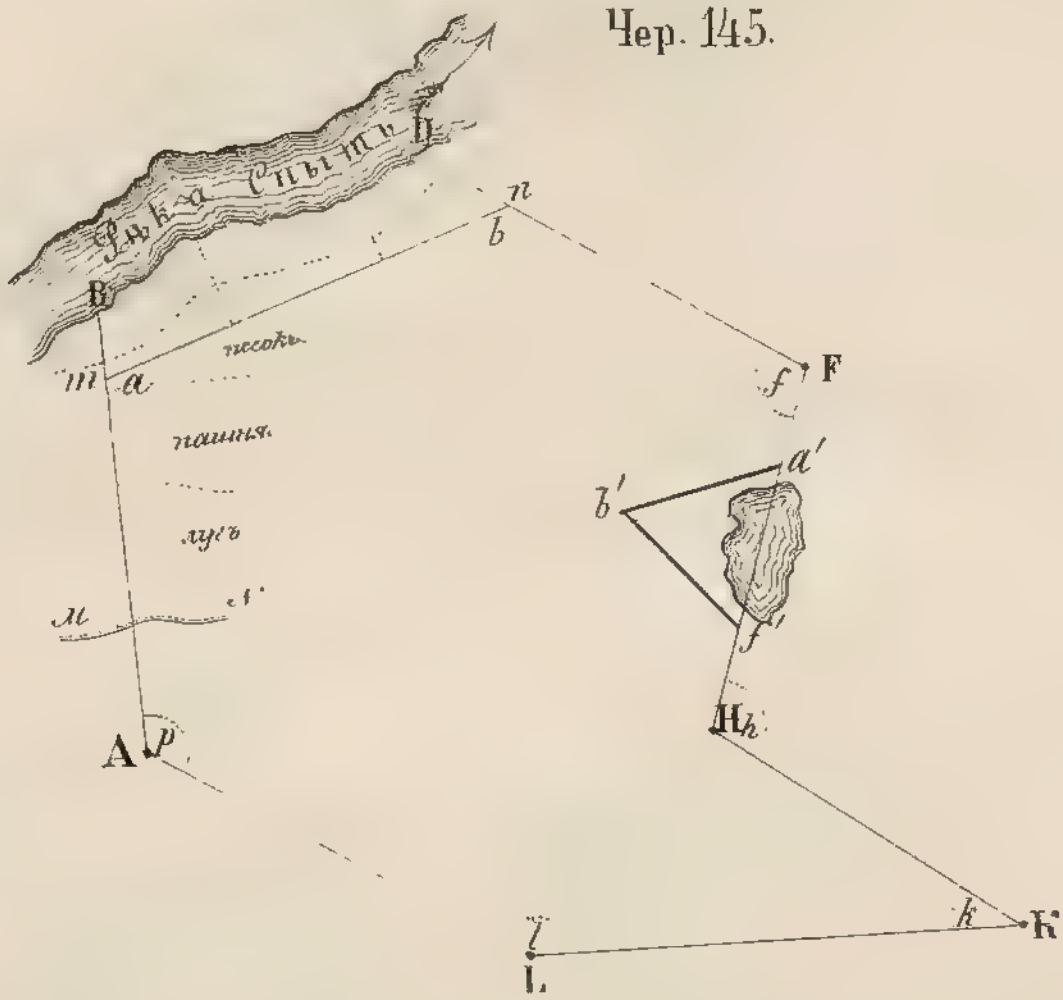
Чер. 143



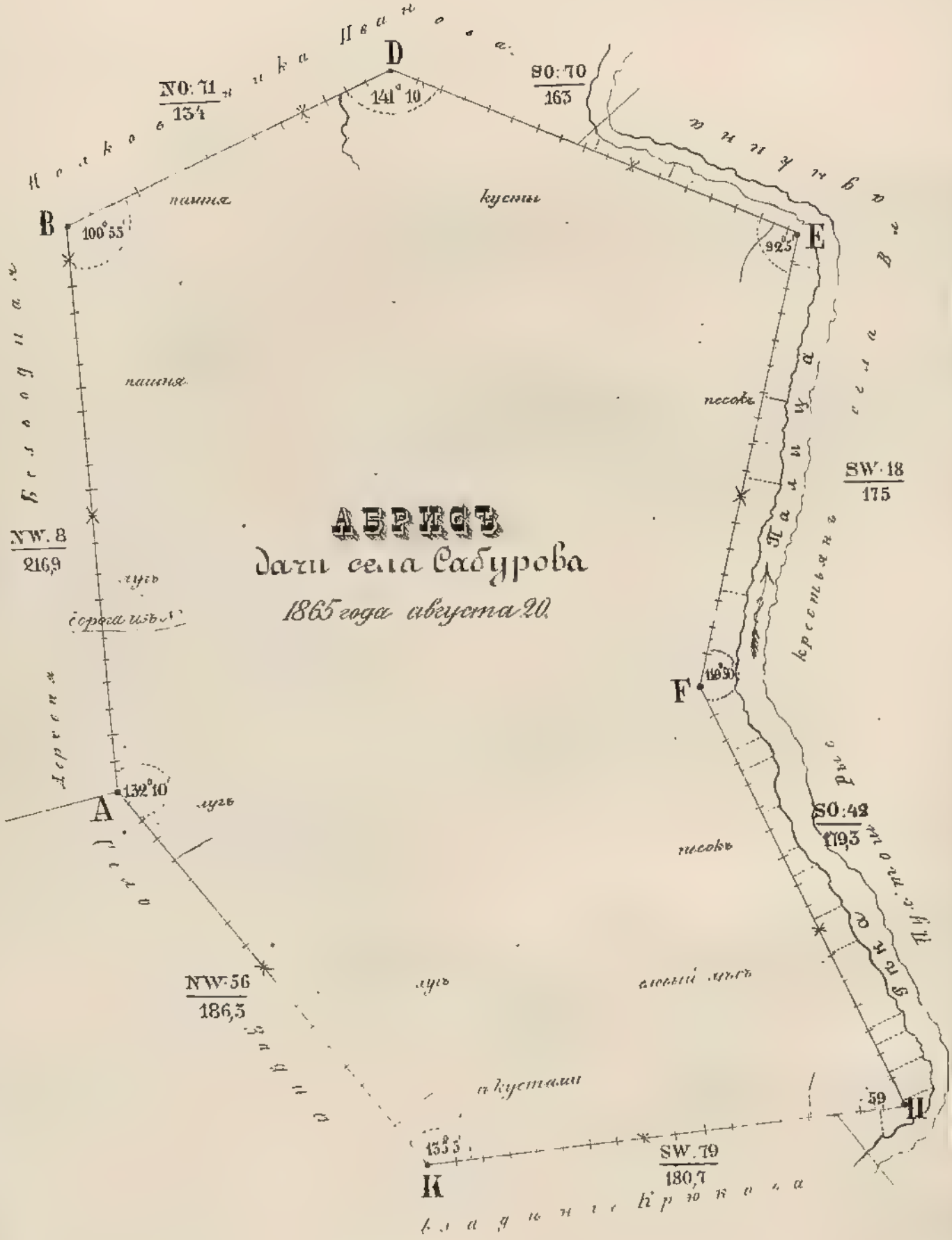
Чер. 144.



Чер. 145.



Чер. 146.


АБРИСЪ
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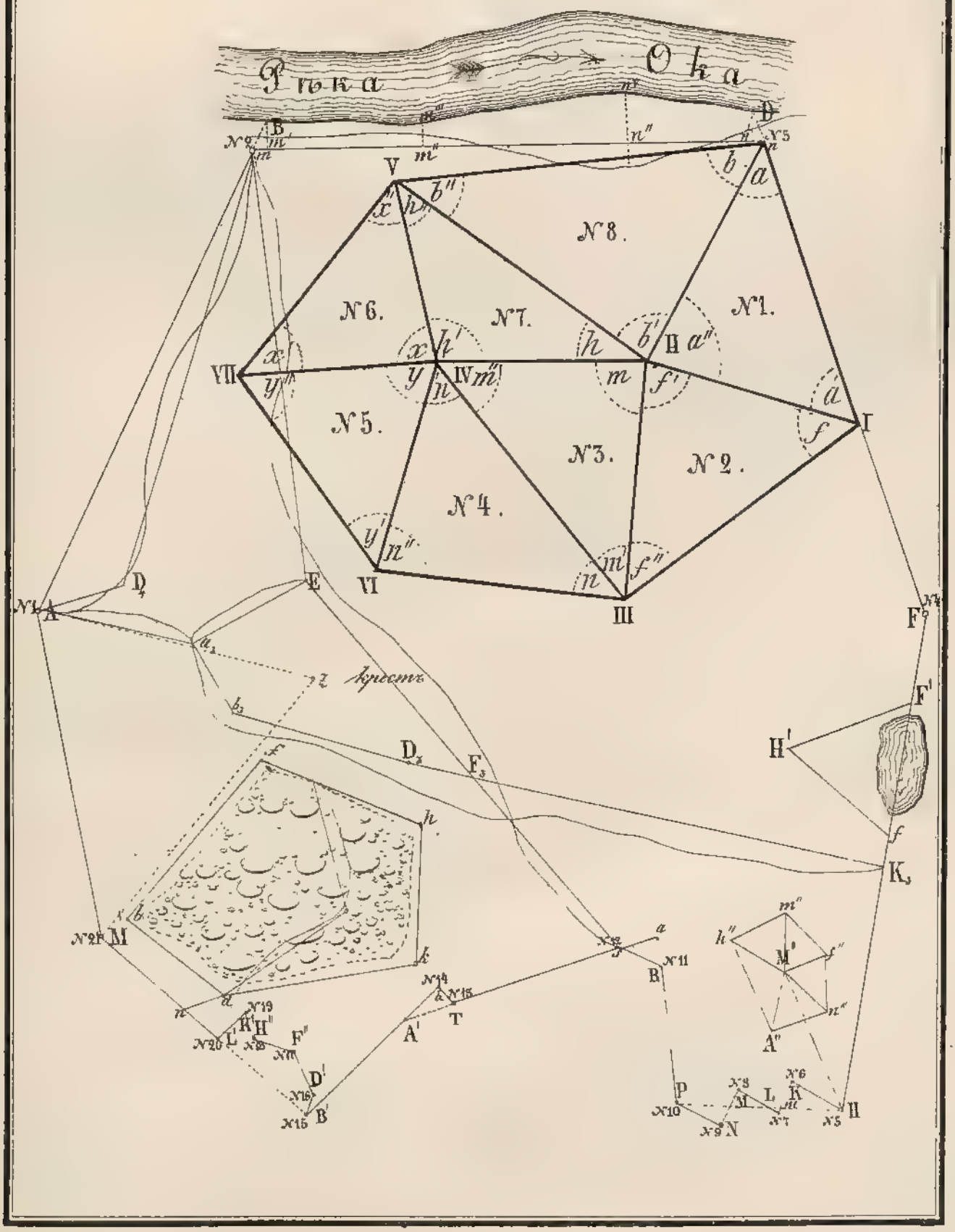
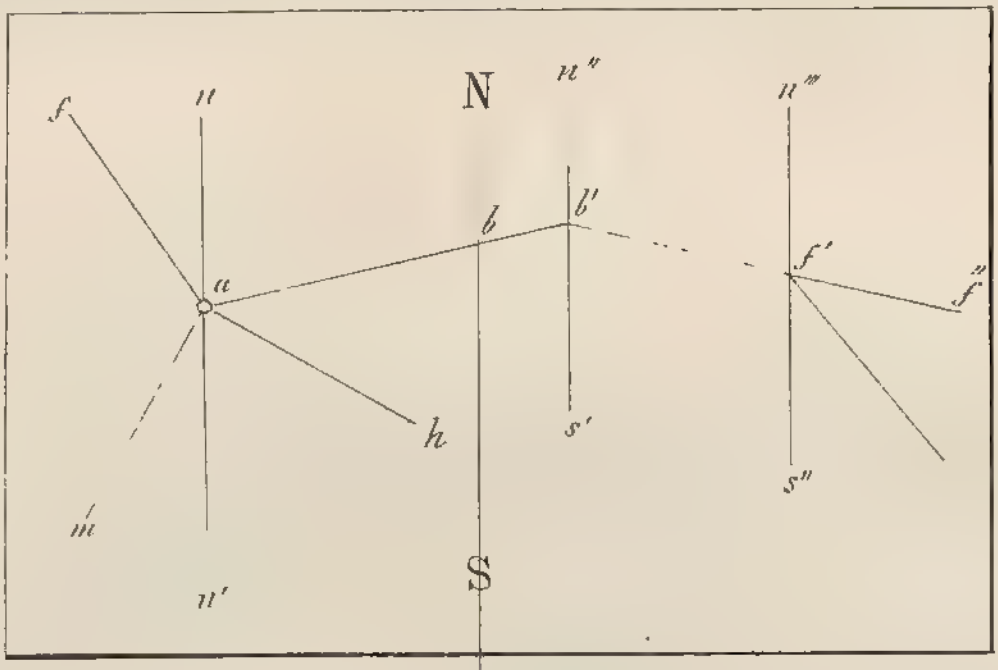
141° 10'
NO: 71
134
SO: 70
163
B
100° 55'
пашня
кусты
E
92° 5'
пашня
песокъ
SW: 18
175
NW: 8
216,9
лугъ
сорока изъ
F
119° 30'
A
132° 10'
лугъ
SO: 42
119,3
песокъ
NW: 56
186,3
лугъ
голый лугъ
кустами
H
59
K
135° 5'
SW: 79
180,7

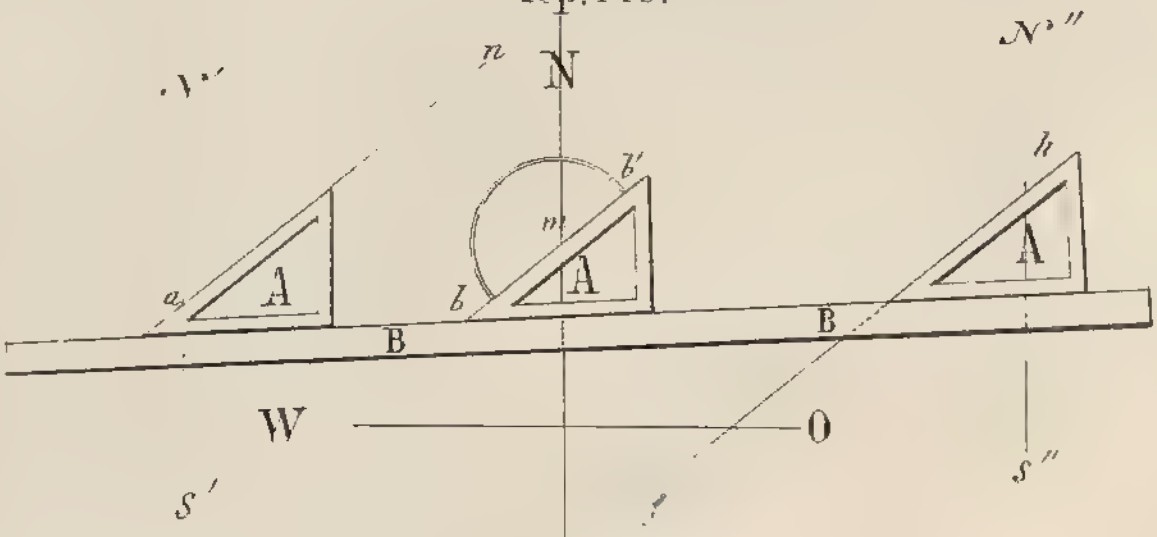
Чер. 147.



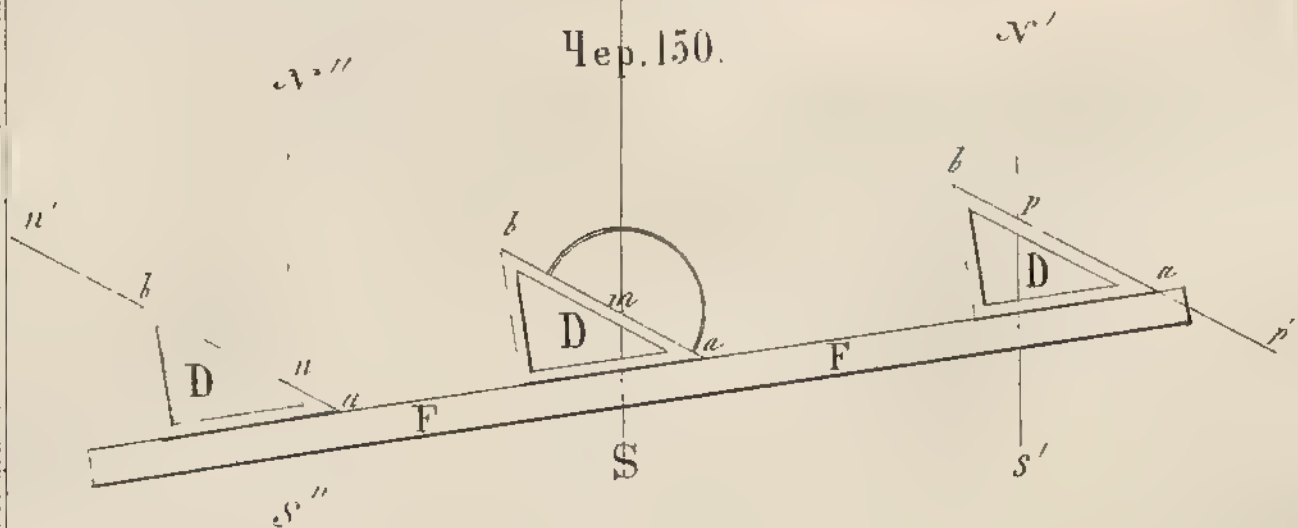
Чер. 148.



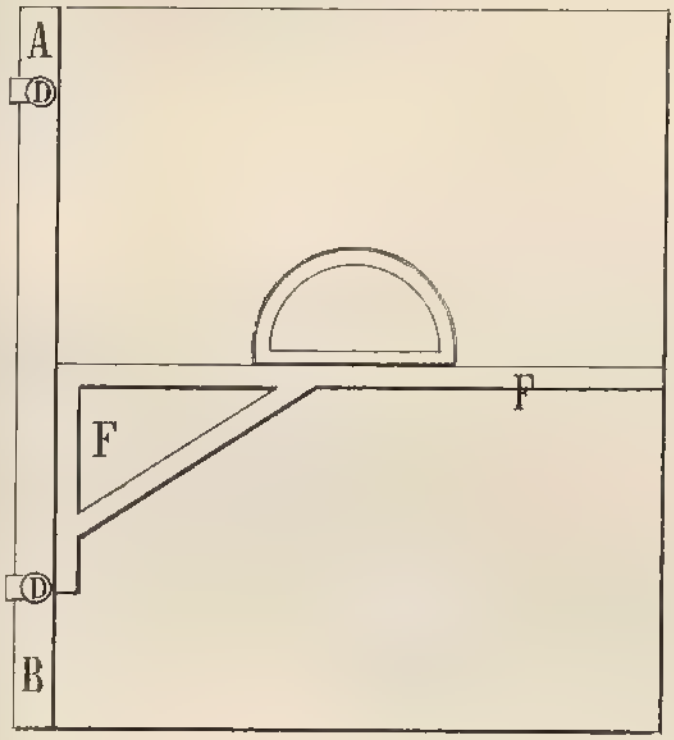
Чер. 149.



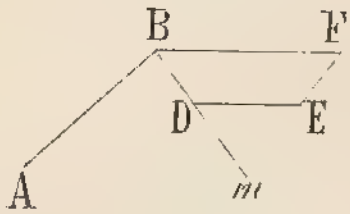
Чер. 150.



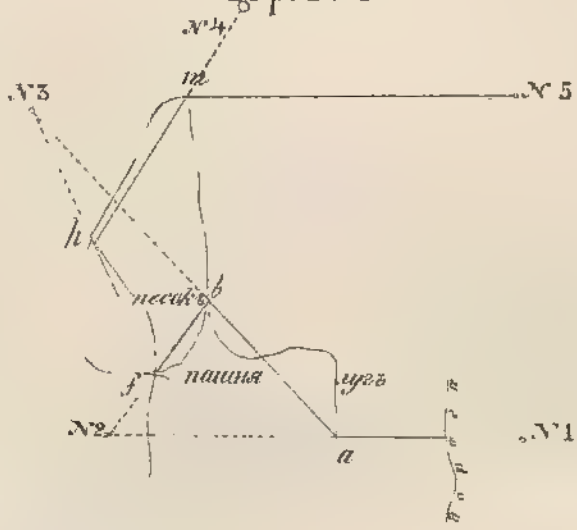
Чер. 151.



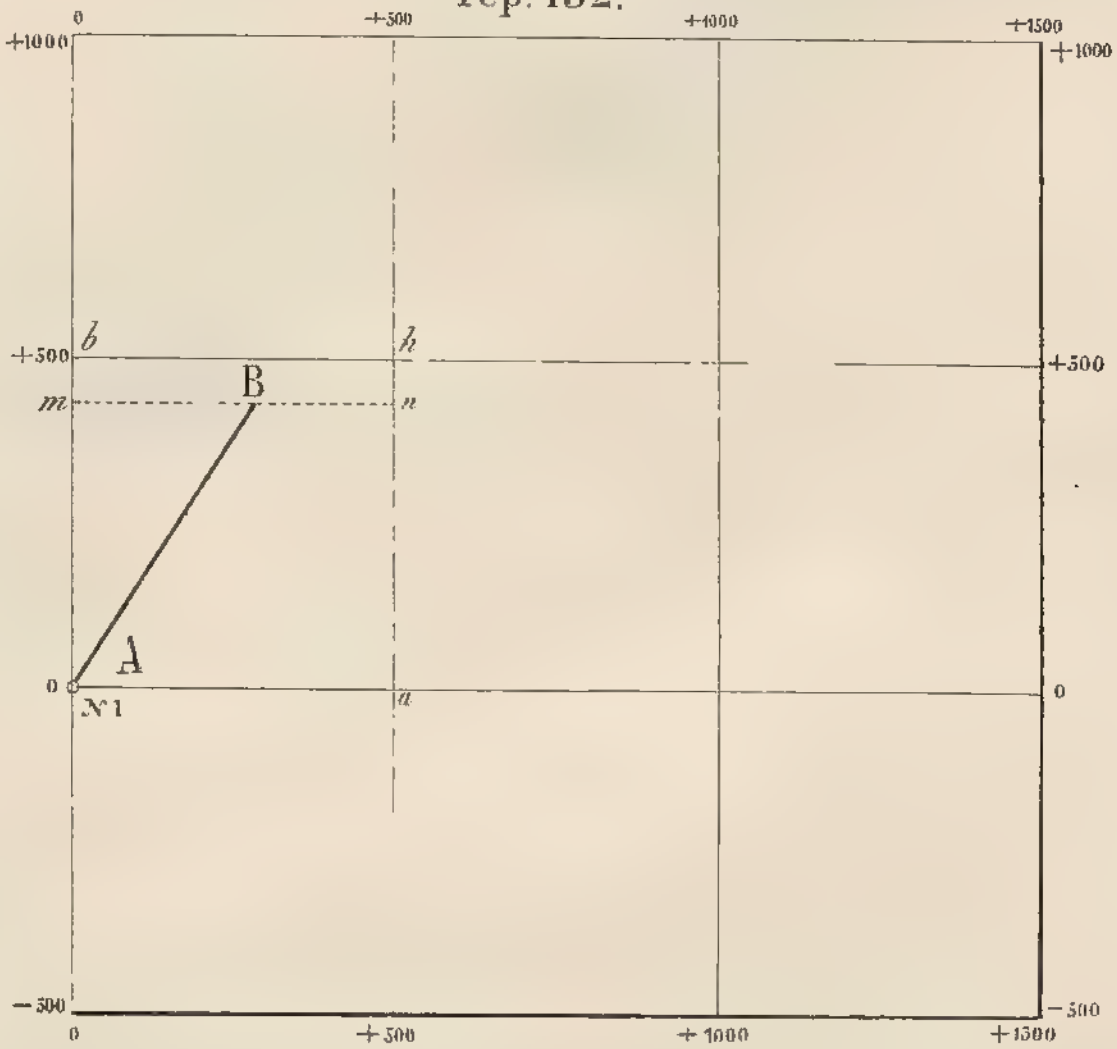
Чер. 153



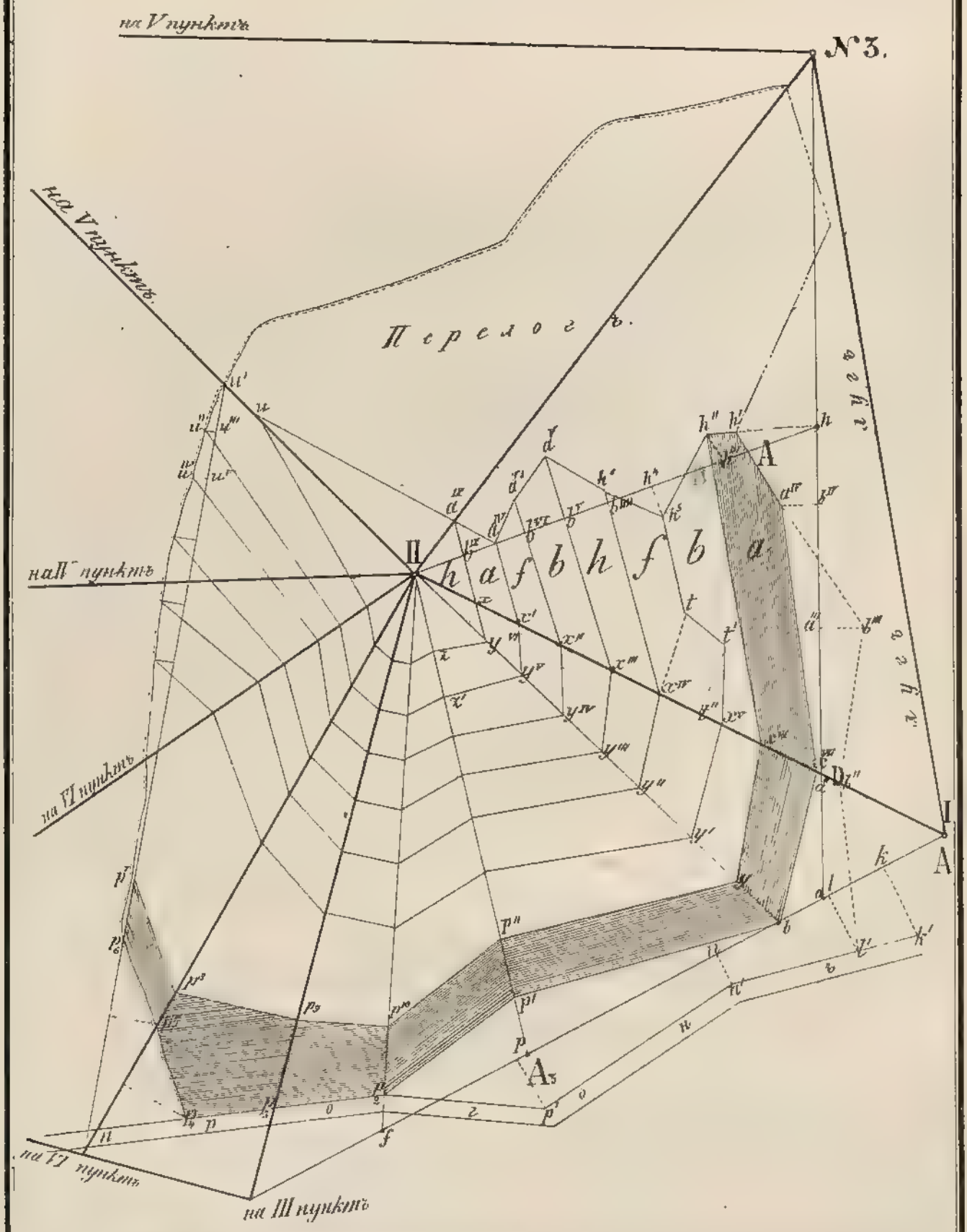
Чер. 154.



Чер. 152.



Чер. 155.


на V пунктъ
№ 3.
на V пунктъ
Перелогъ.
на II пунктъ
на VI пунктъ
на IV пунктъ
на III пунктъ
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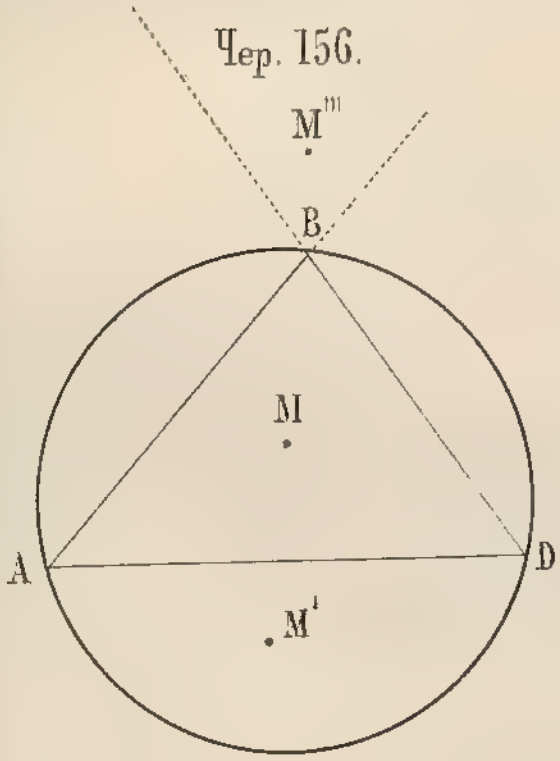
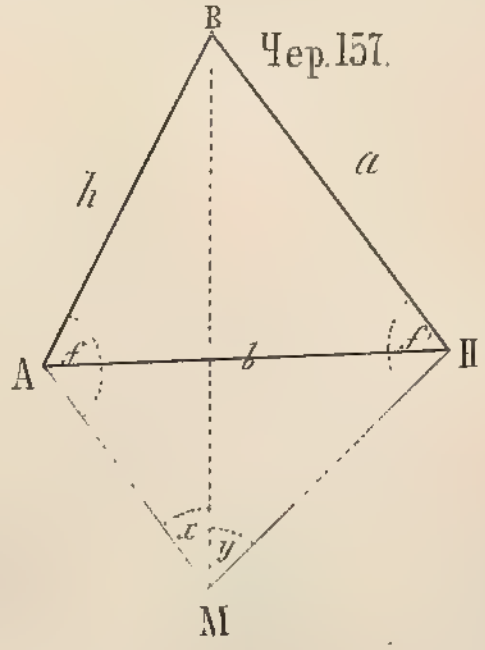
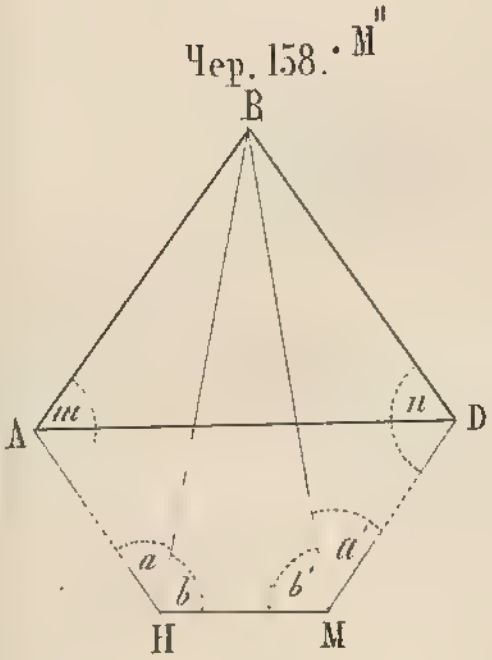
Чер. 156.



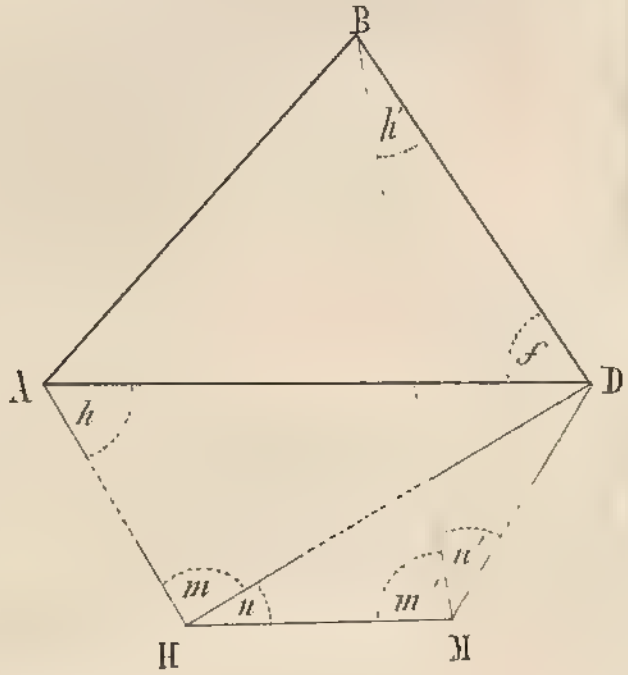
Чер. 157.



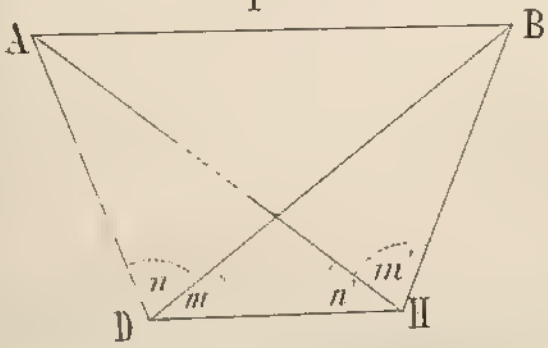
Чер. 158.



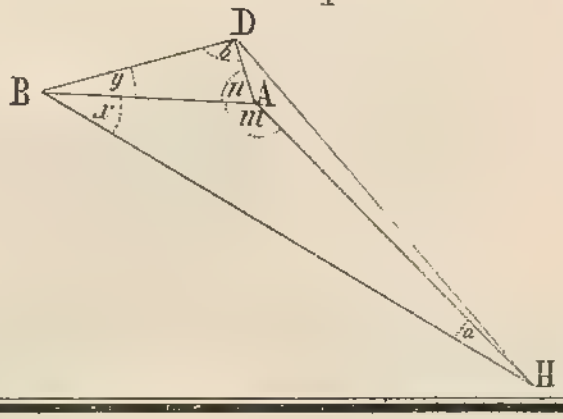
Чер 159.



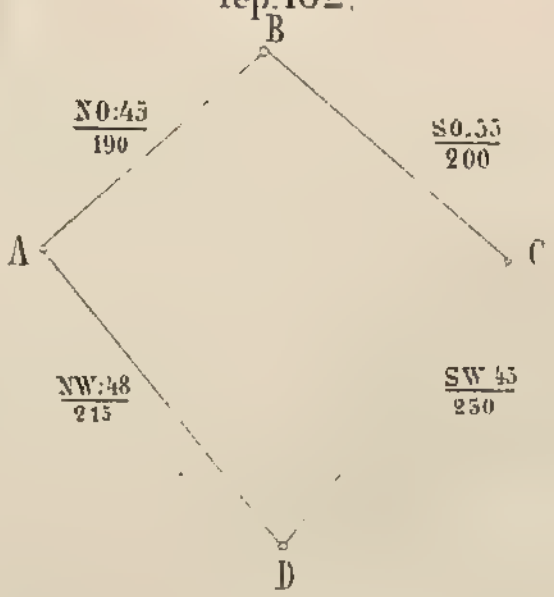
Чер. 160.



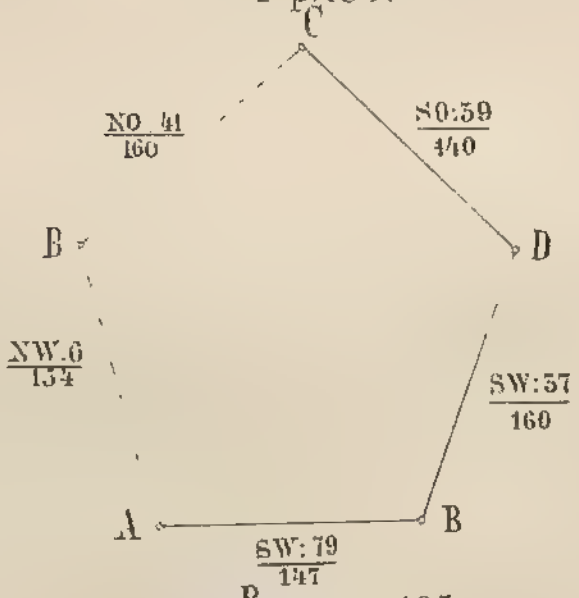
Чер. 161.



Чер. 162.



Чер. 163.



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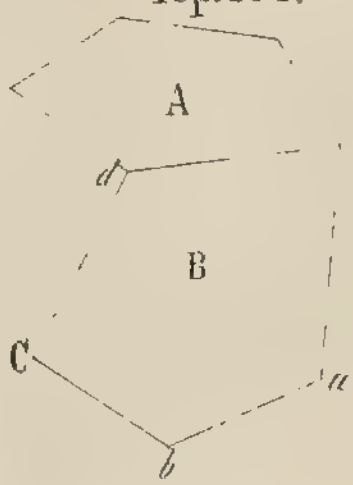

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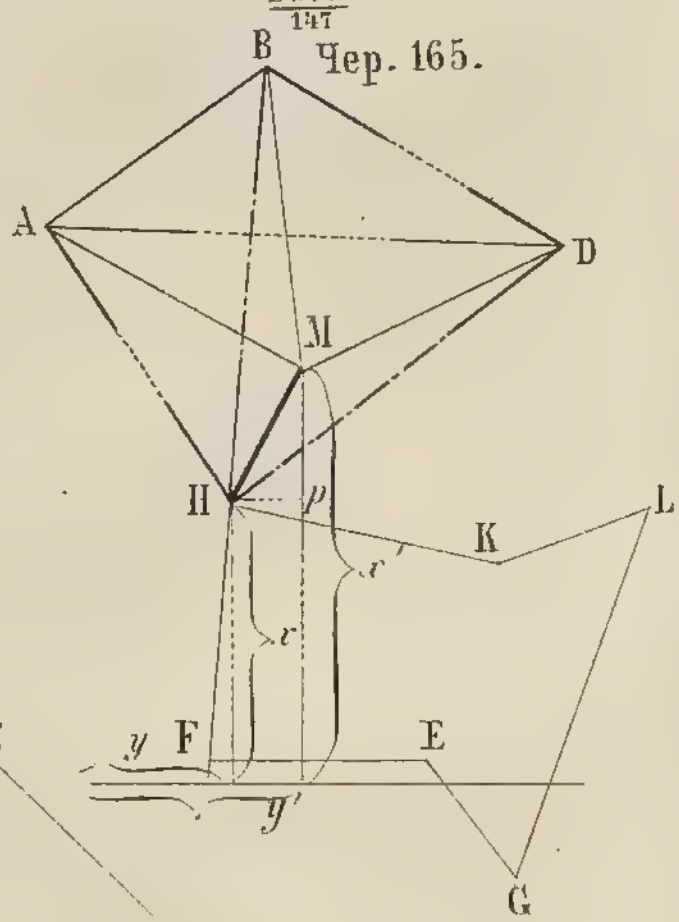

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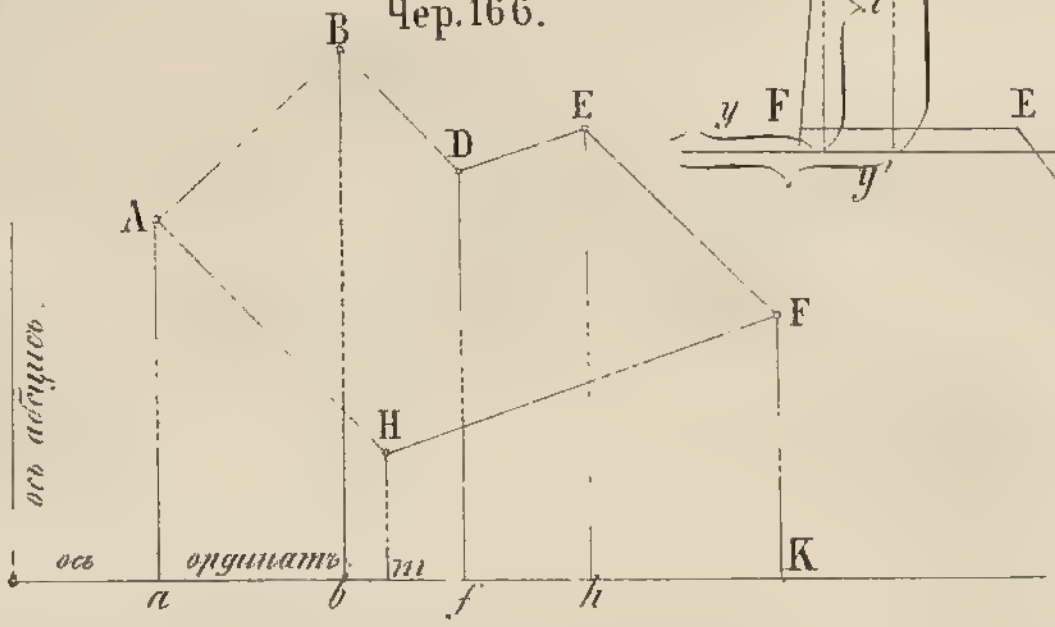

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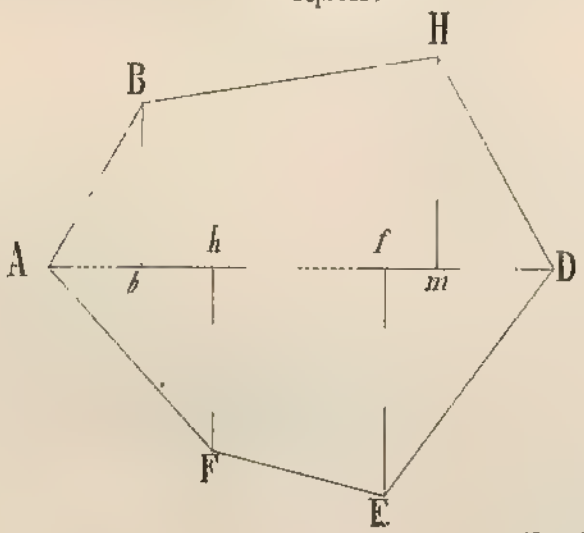

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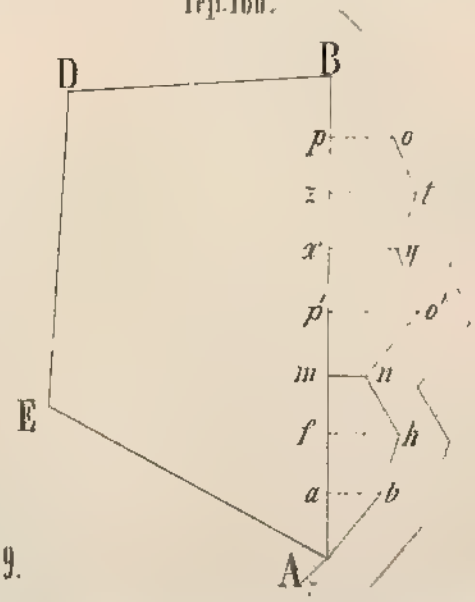
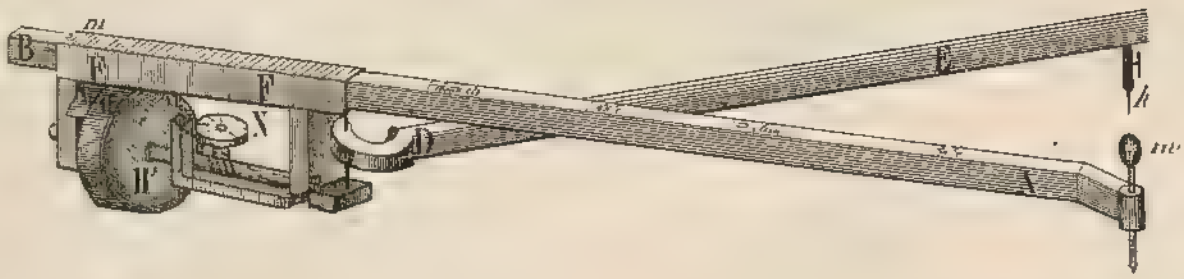


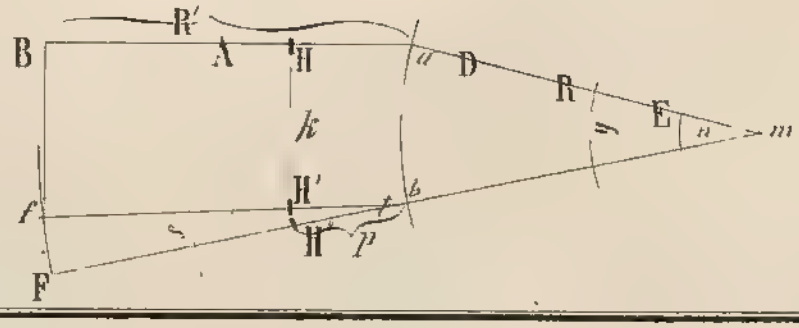
Чер.169.

Чер.170.



Чер.171 a

Чер.171.



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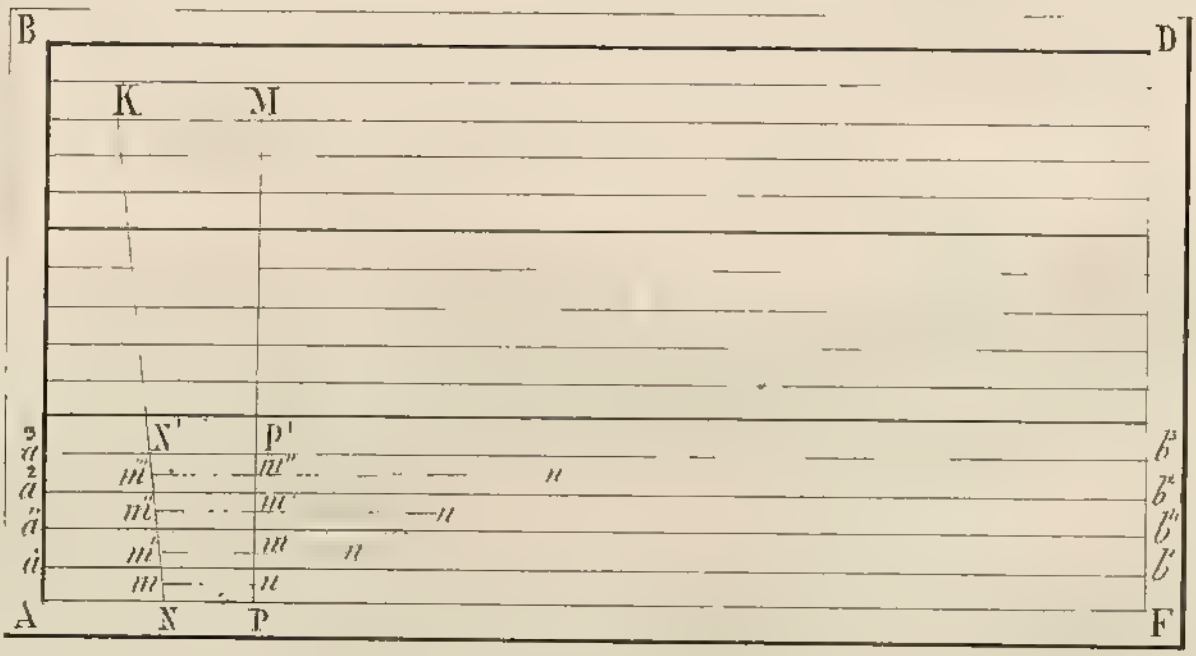

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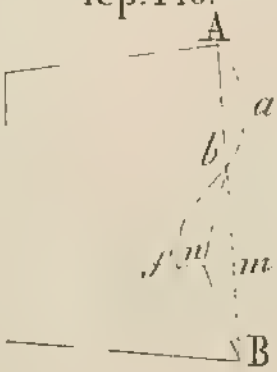

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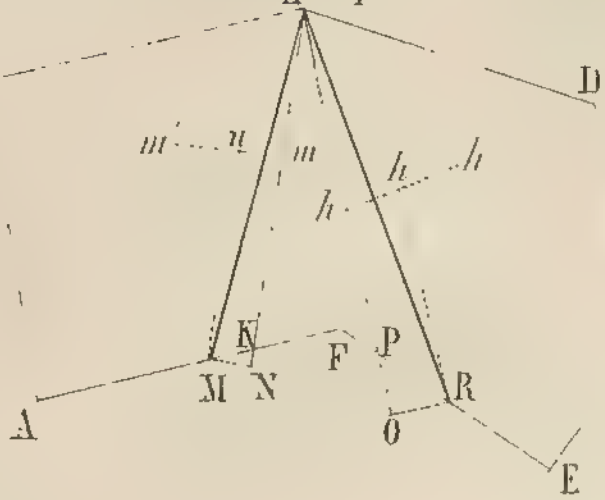

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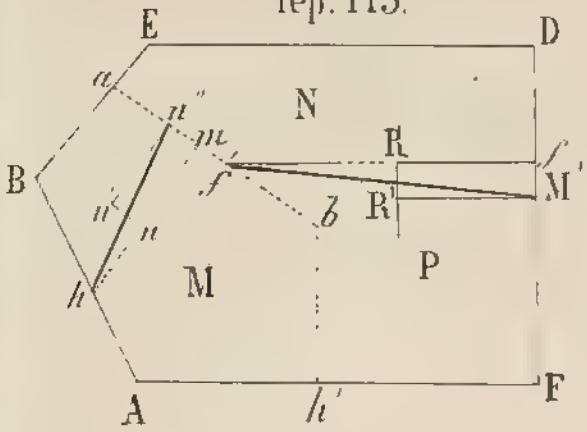

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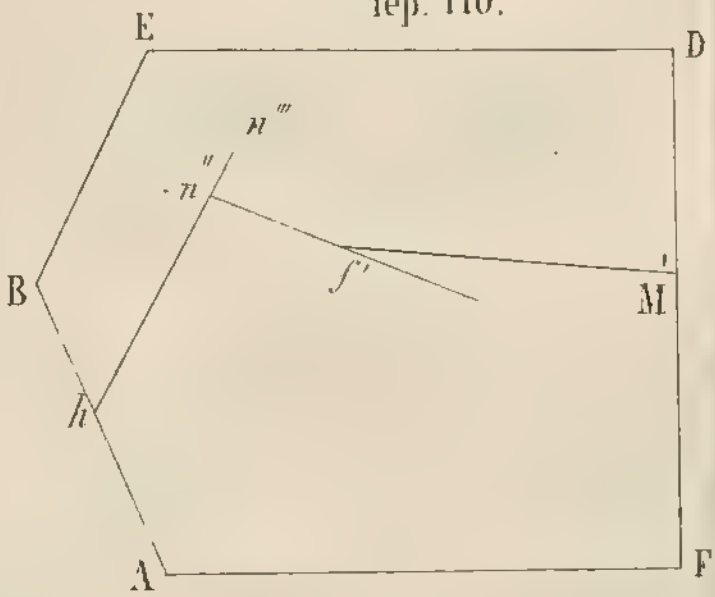

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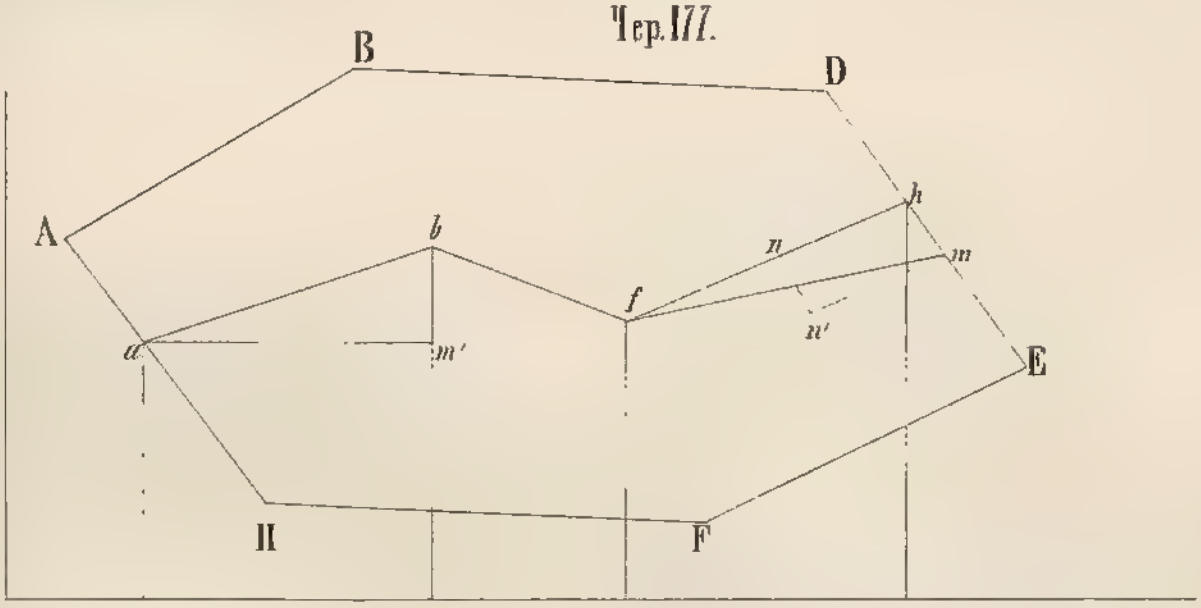

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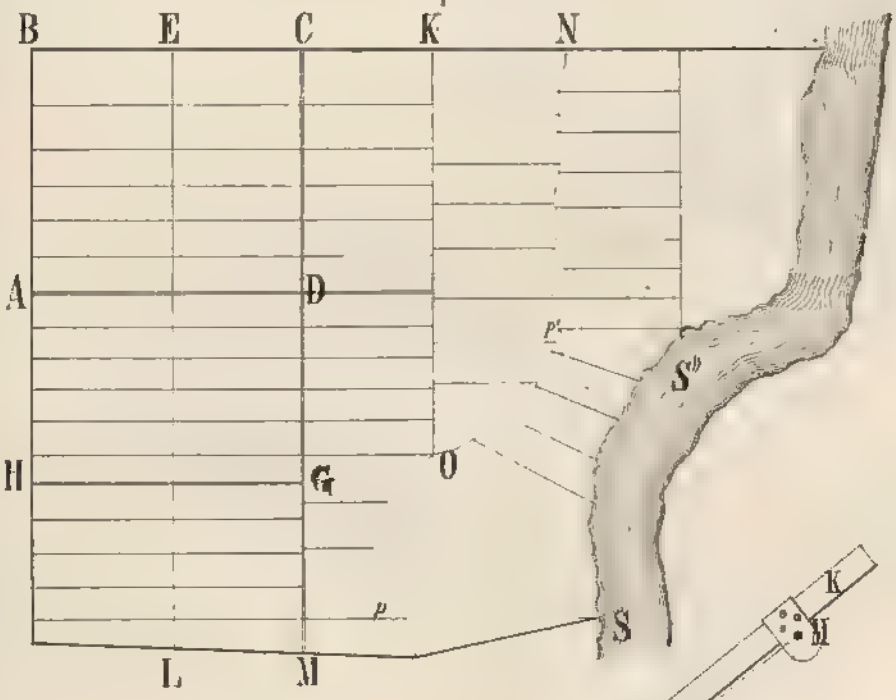

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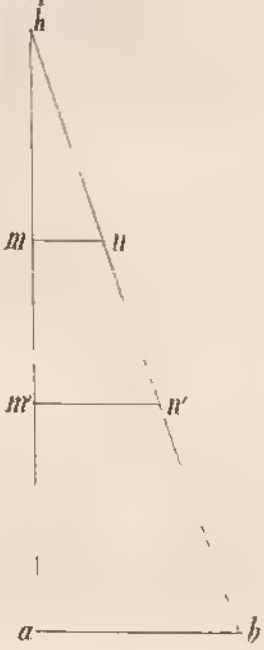
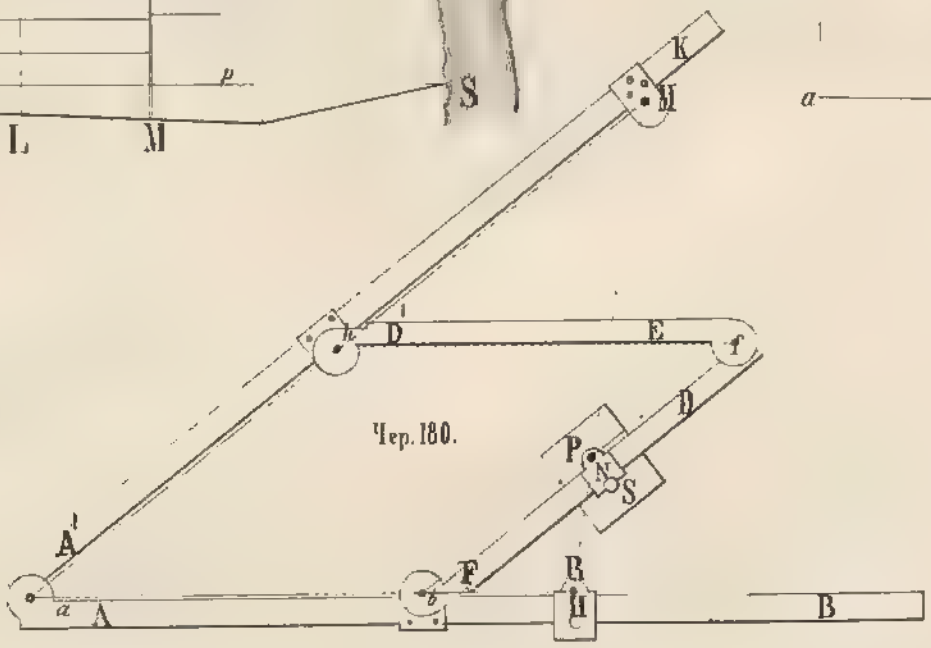


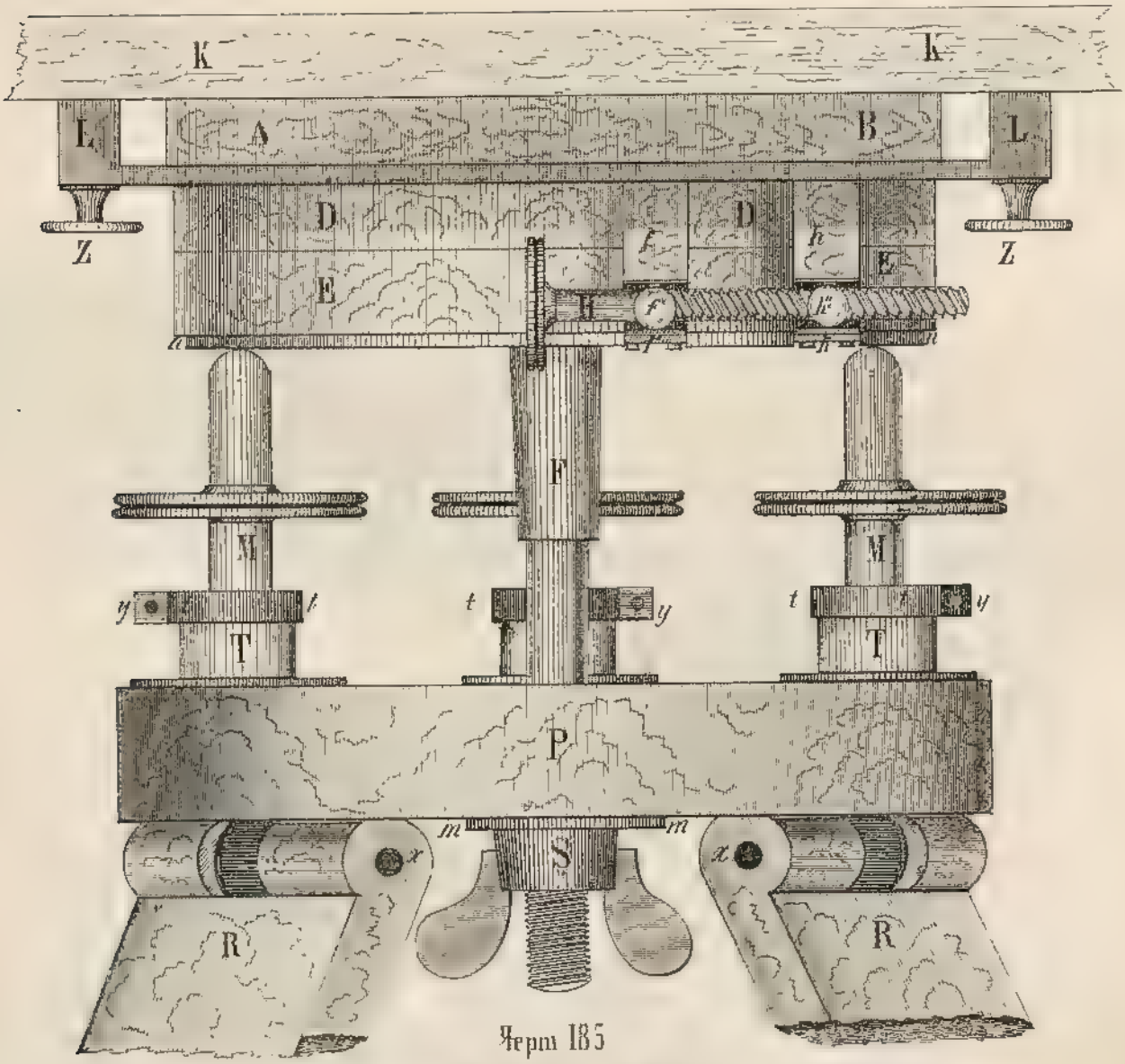


Чер. 180.

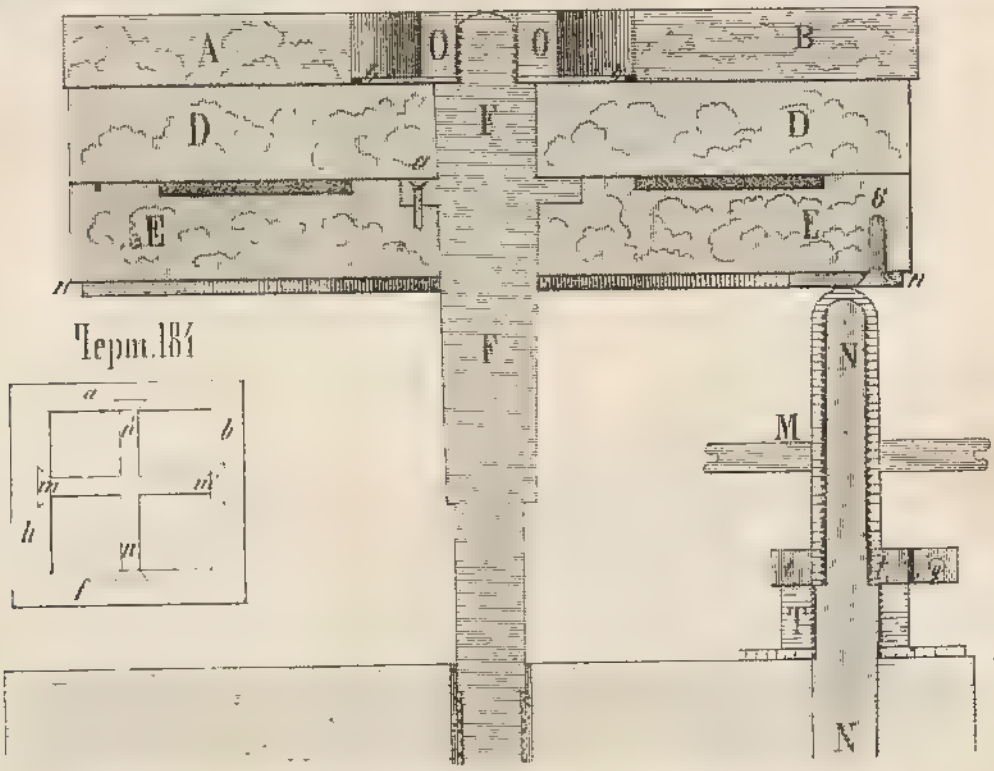
Чер. 182.

Чер 181.

Чер 185.

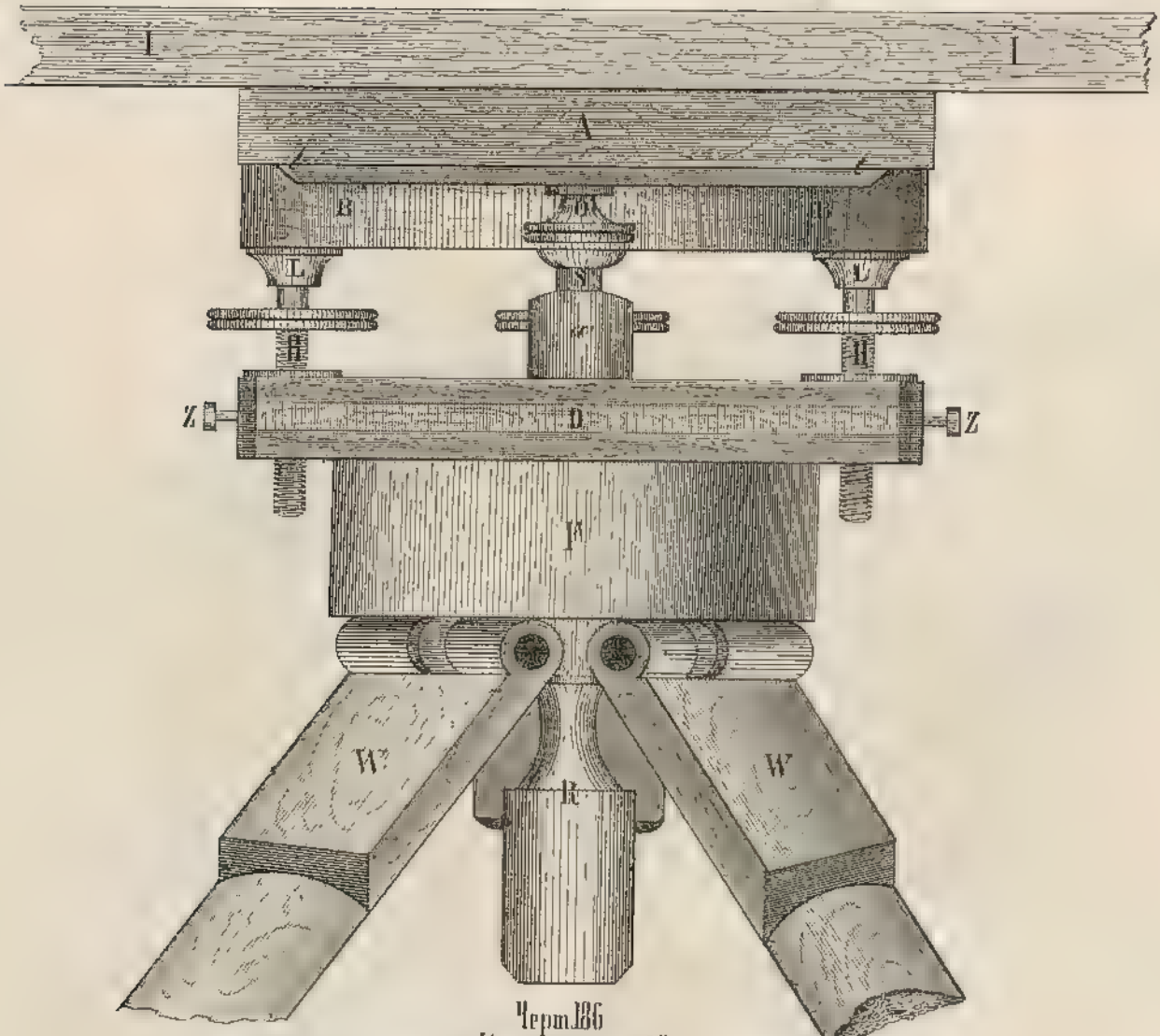


Черт 185

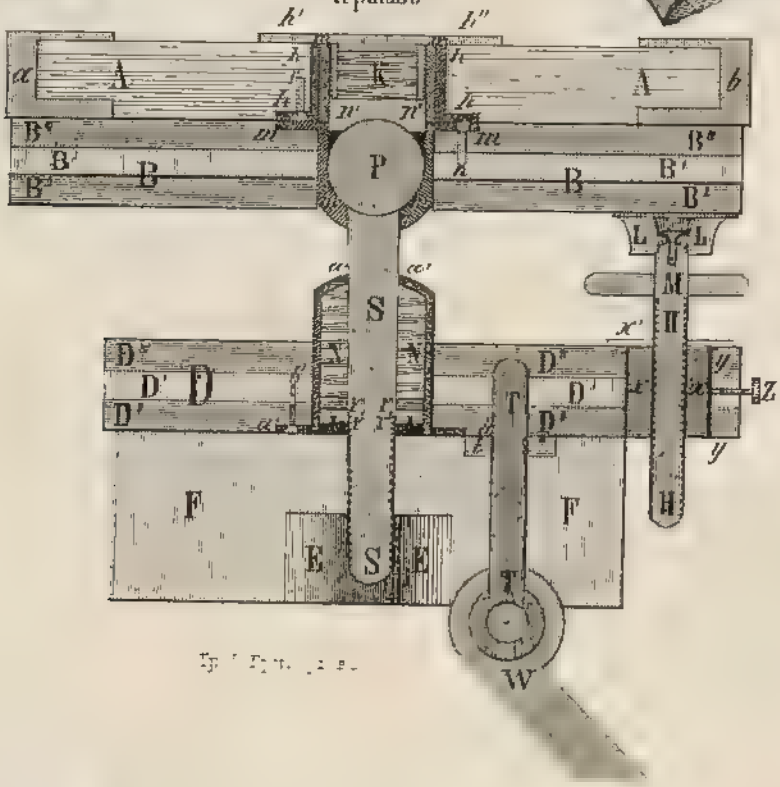


Черт. 184

Грав С. Григорьевъ



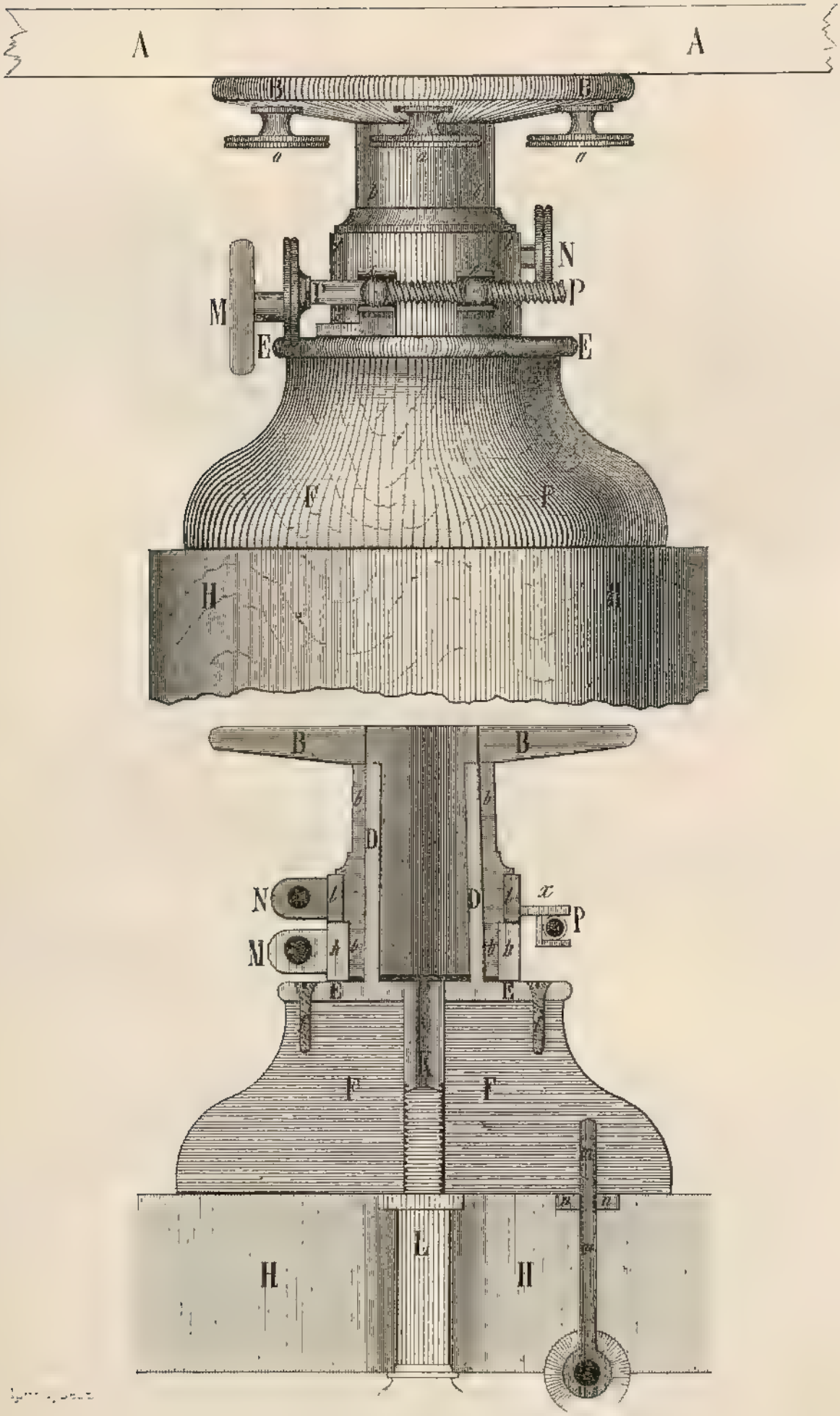
Черт.186



Ст 54

Чер 187

Гисъ



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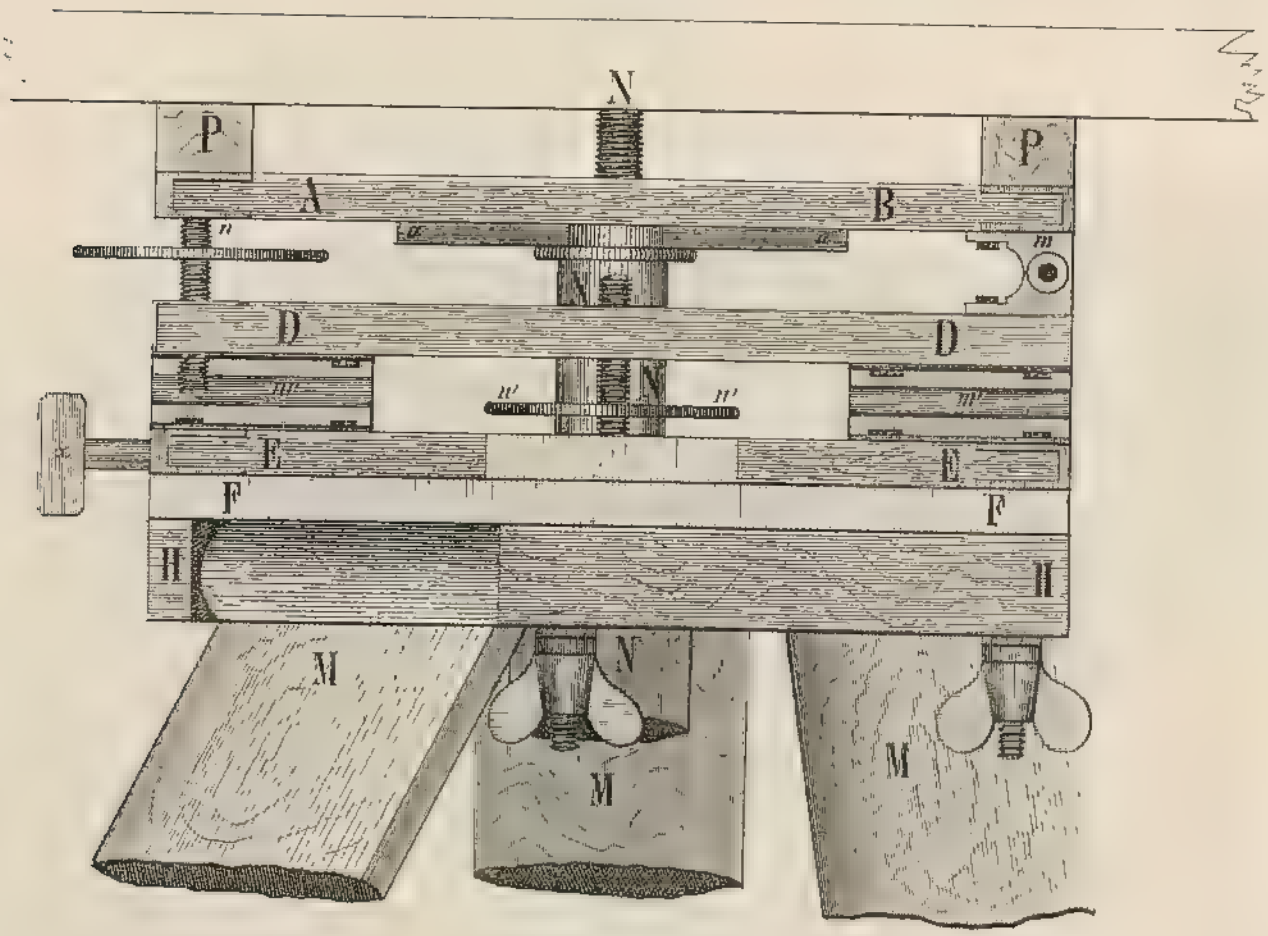

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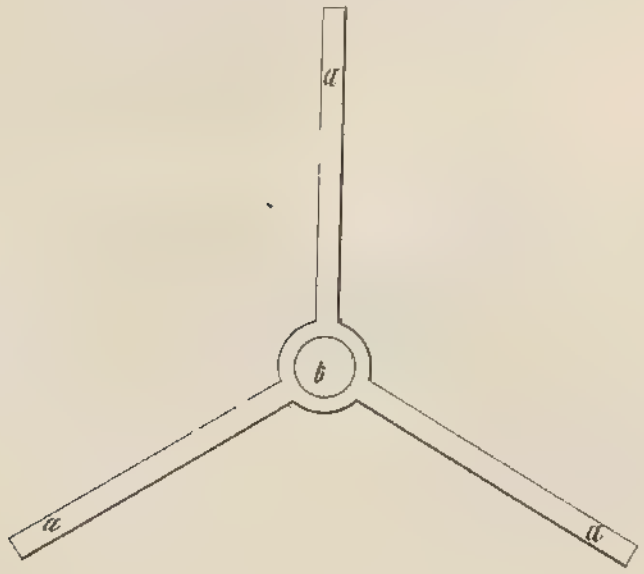

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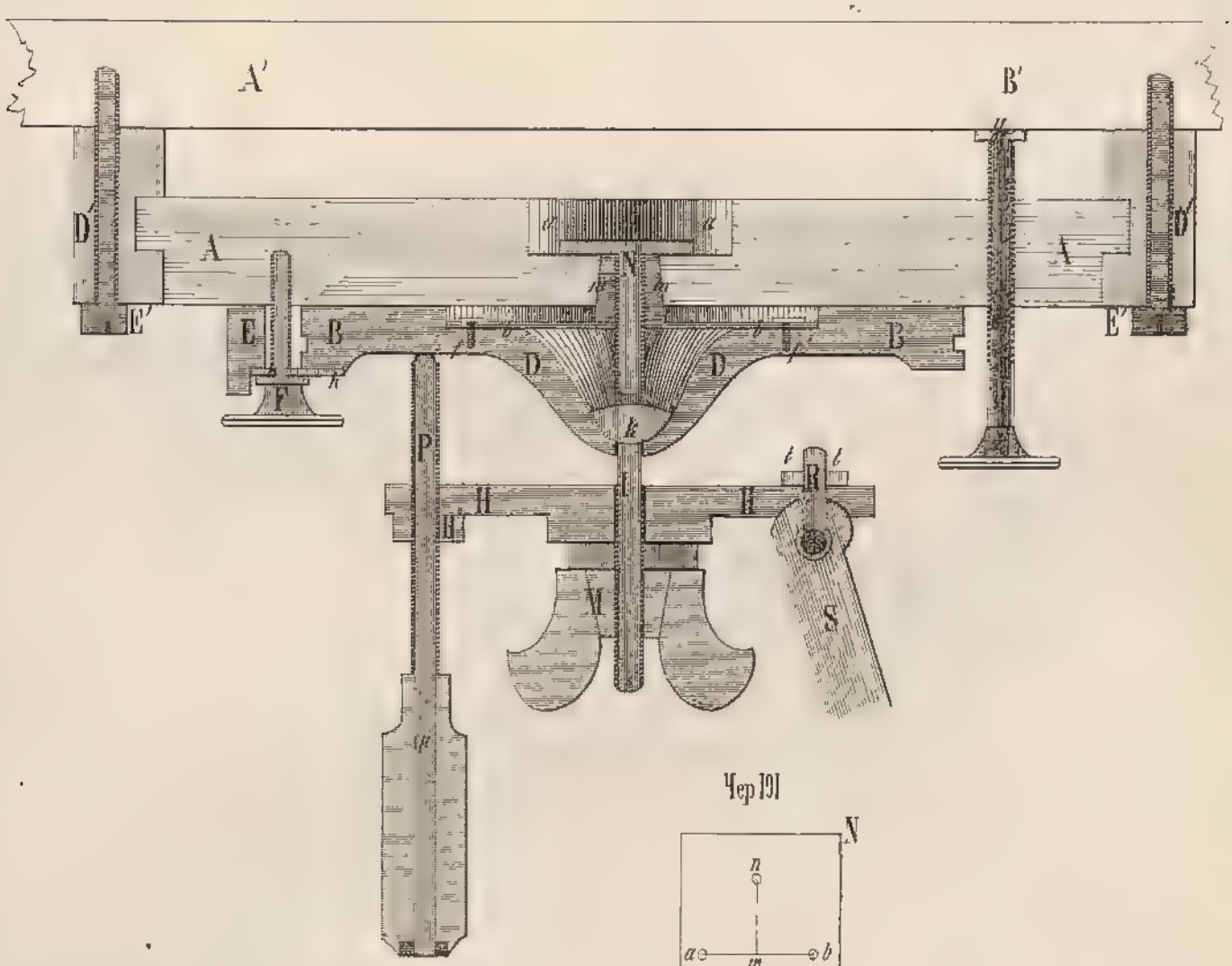

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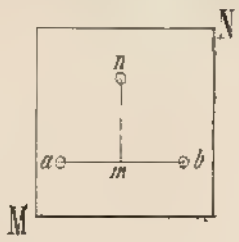

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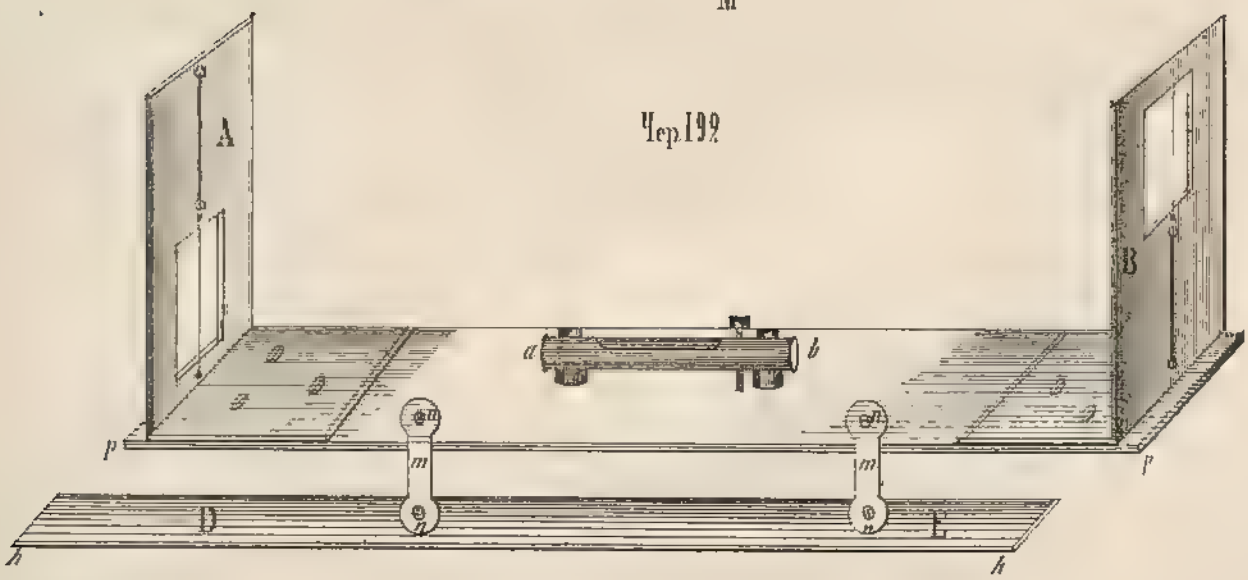

Гр С Григорьевъ

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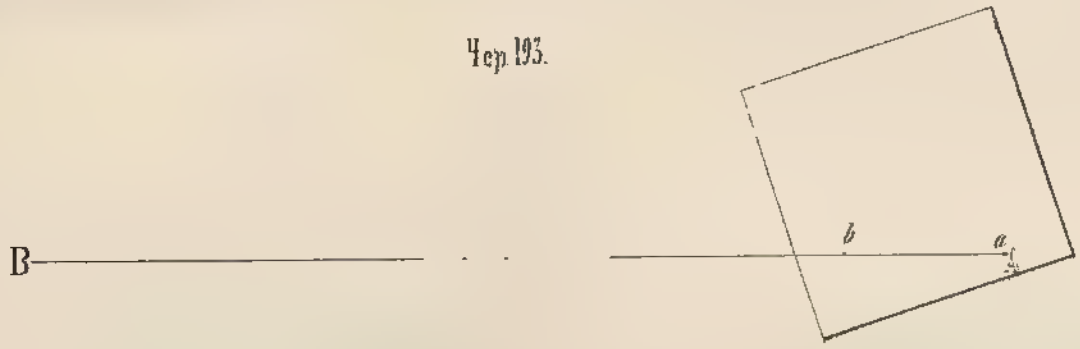

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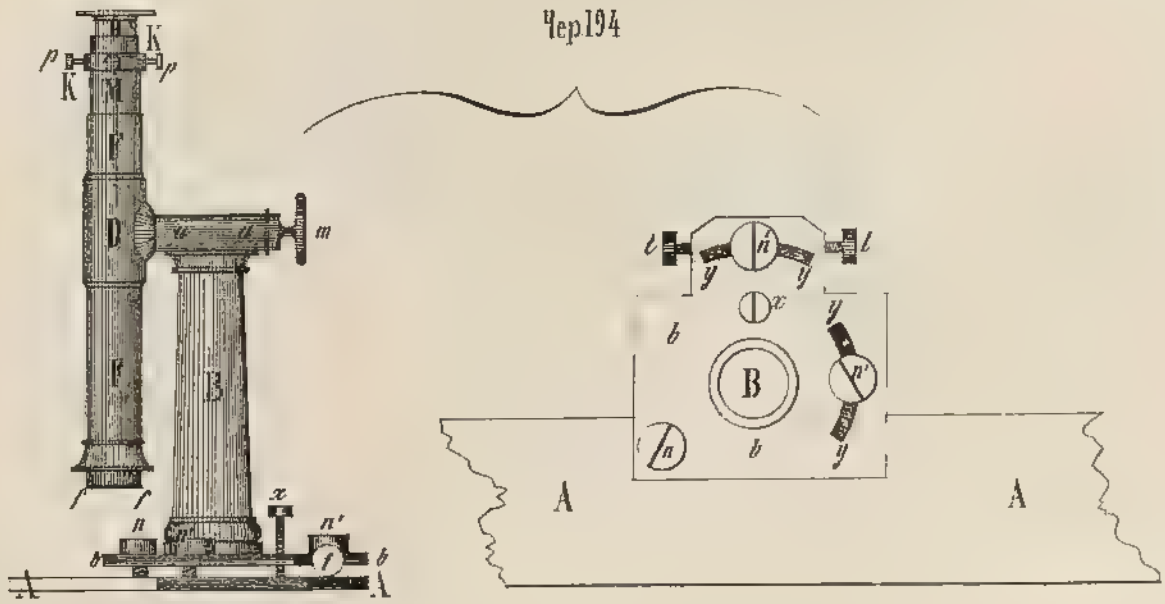

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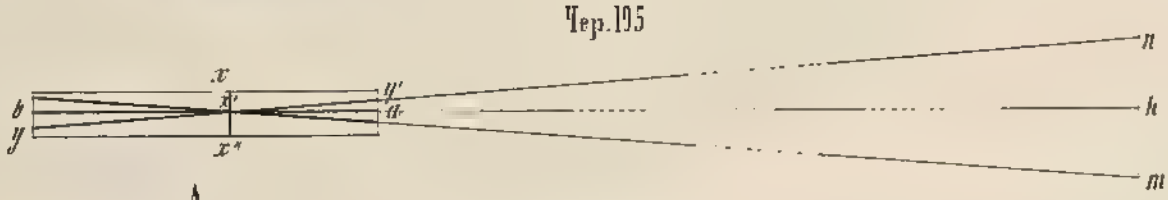

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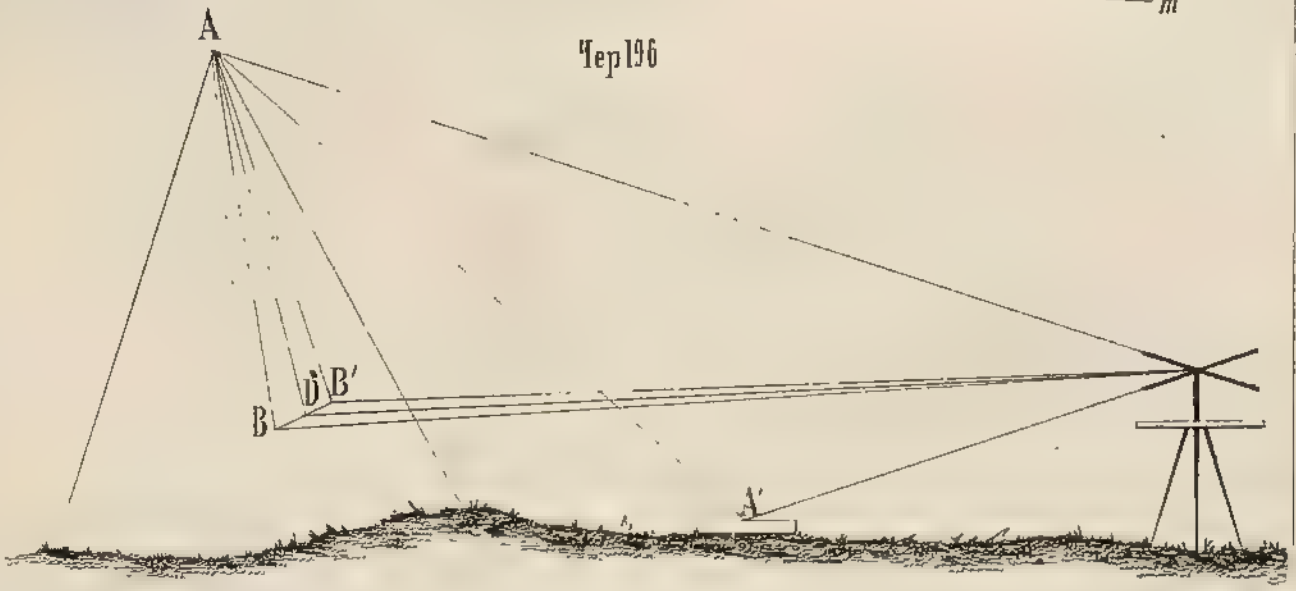

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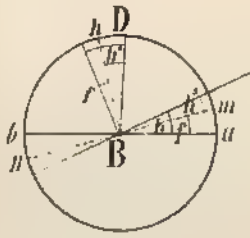

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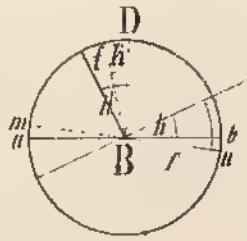

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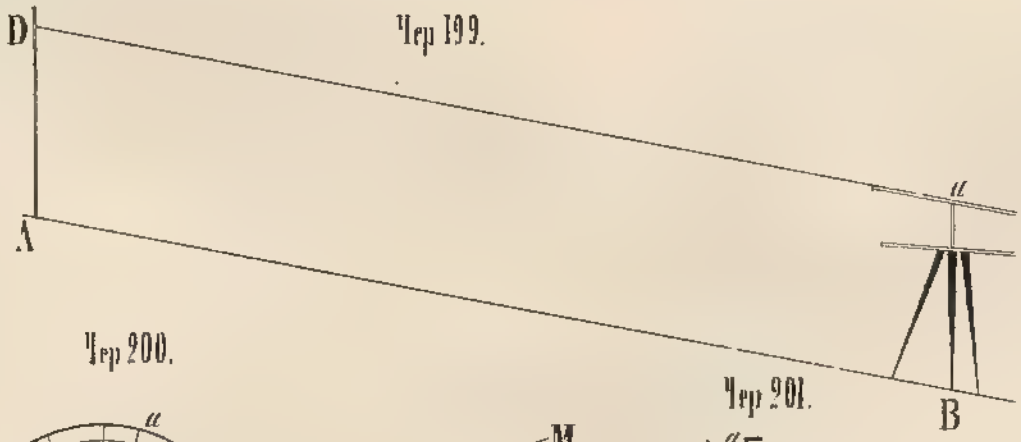

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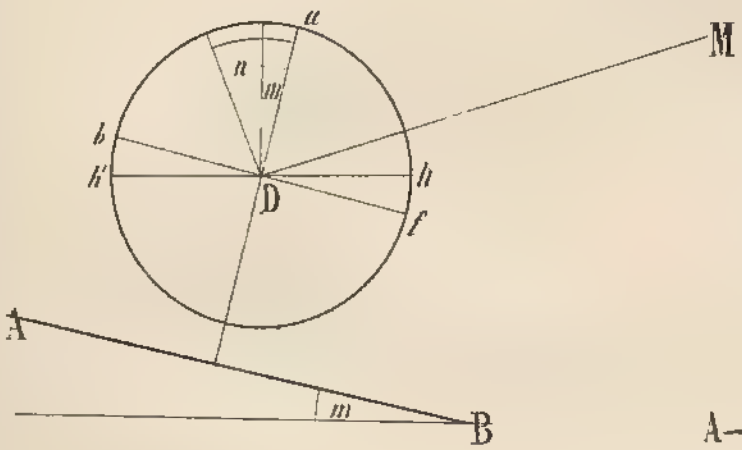

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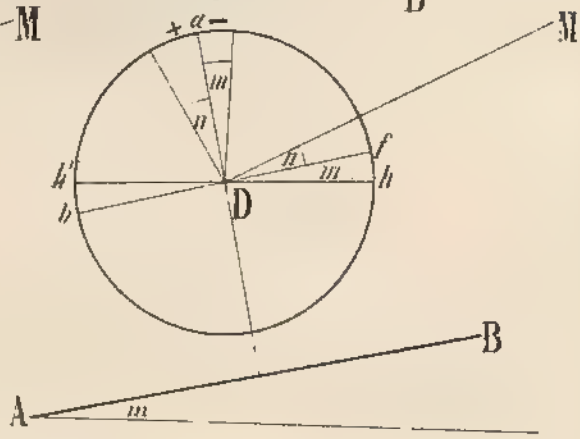

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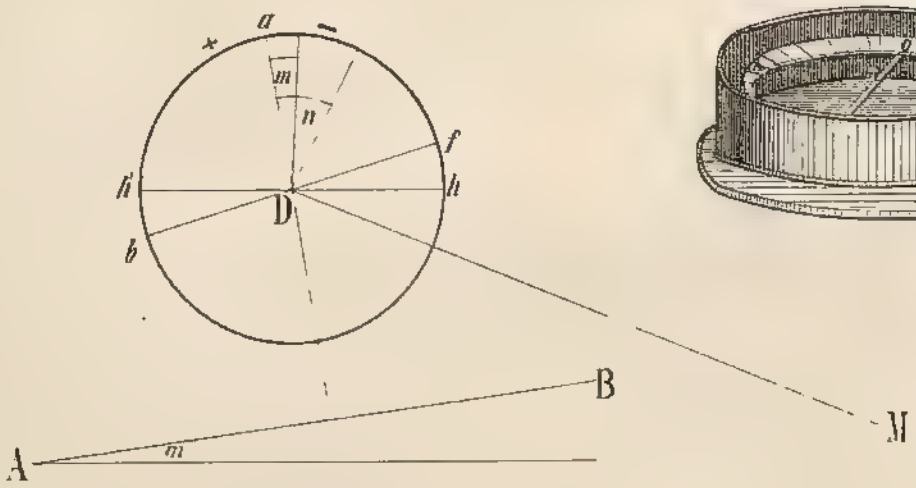

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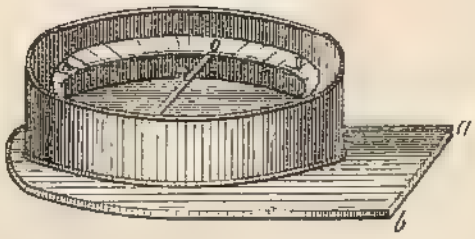

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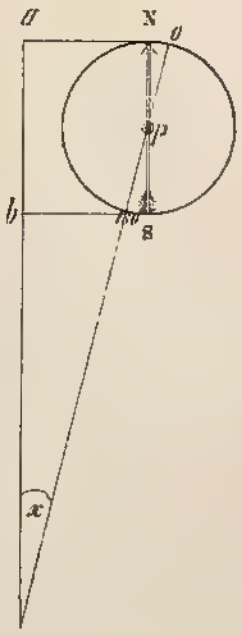

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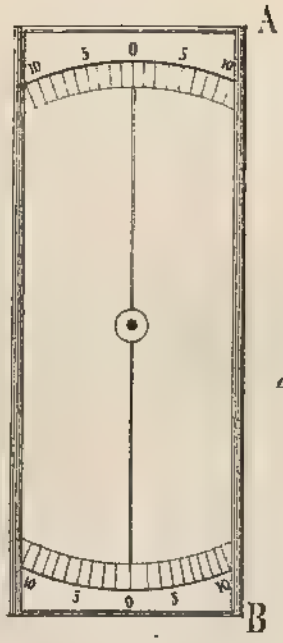

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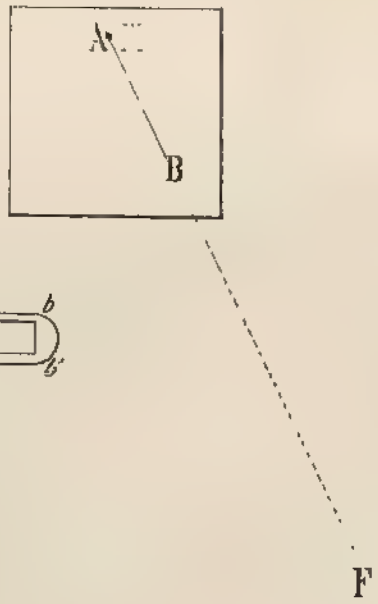

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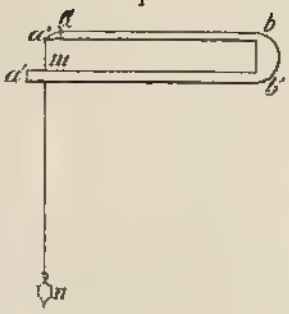

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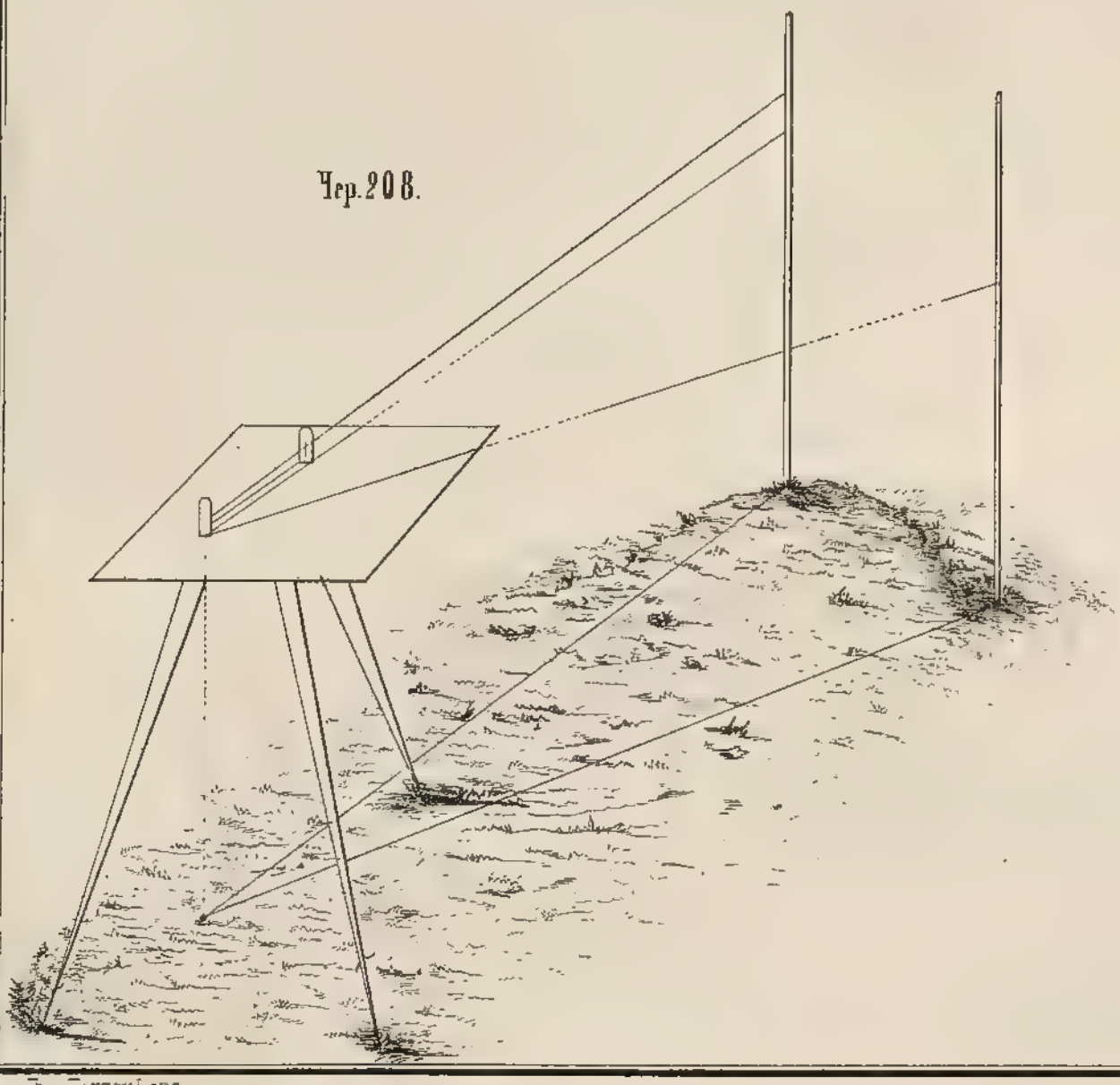

Д. Дмитриевъ

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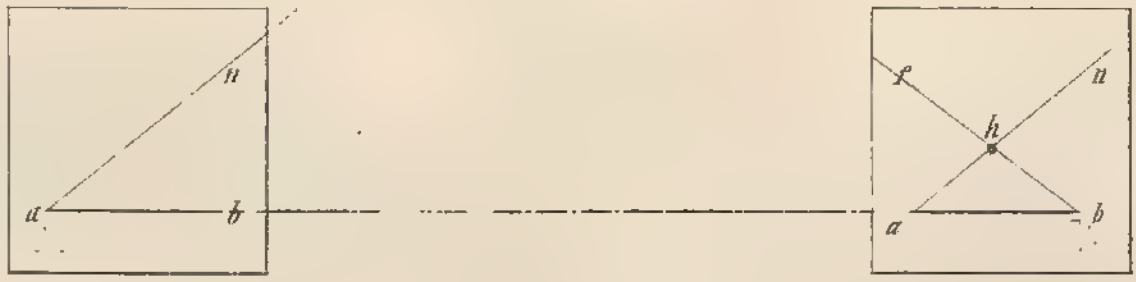
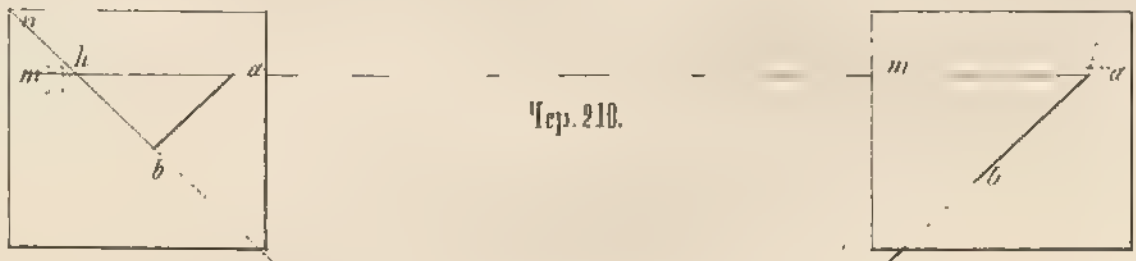
Чер. 209





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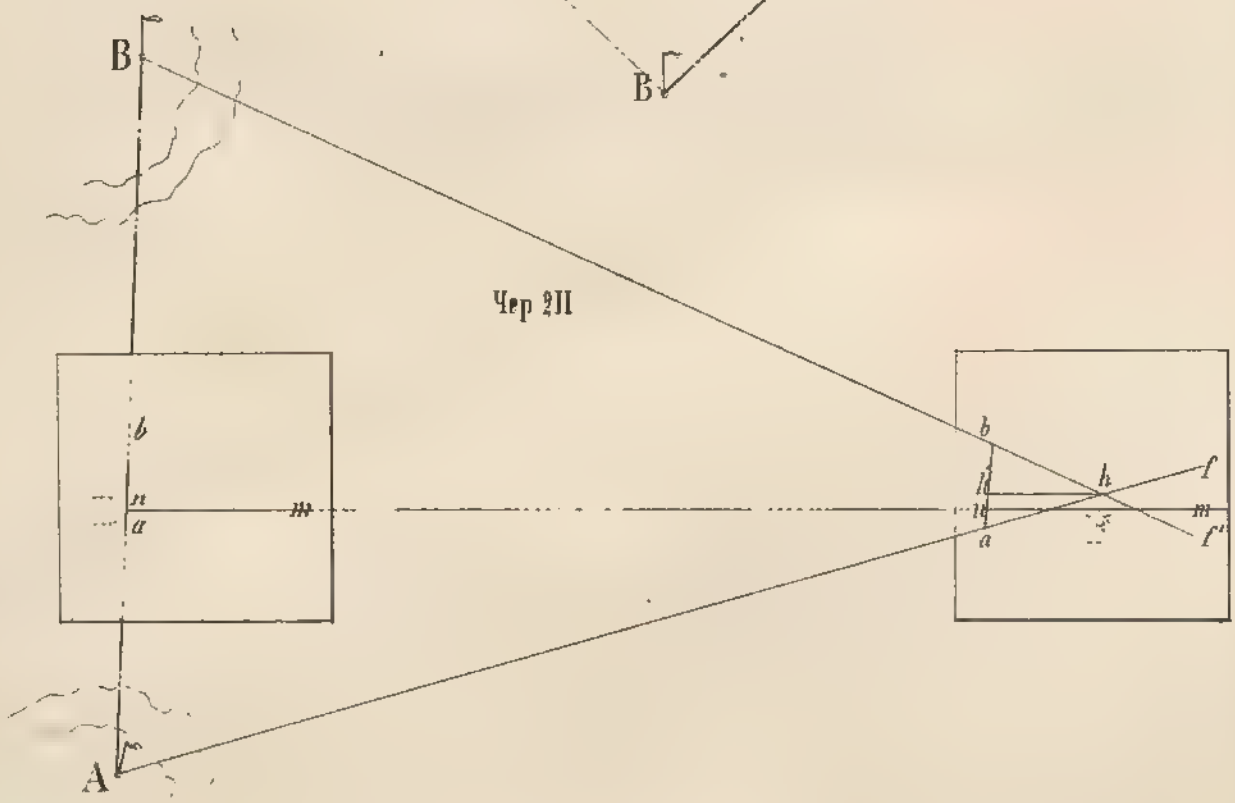
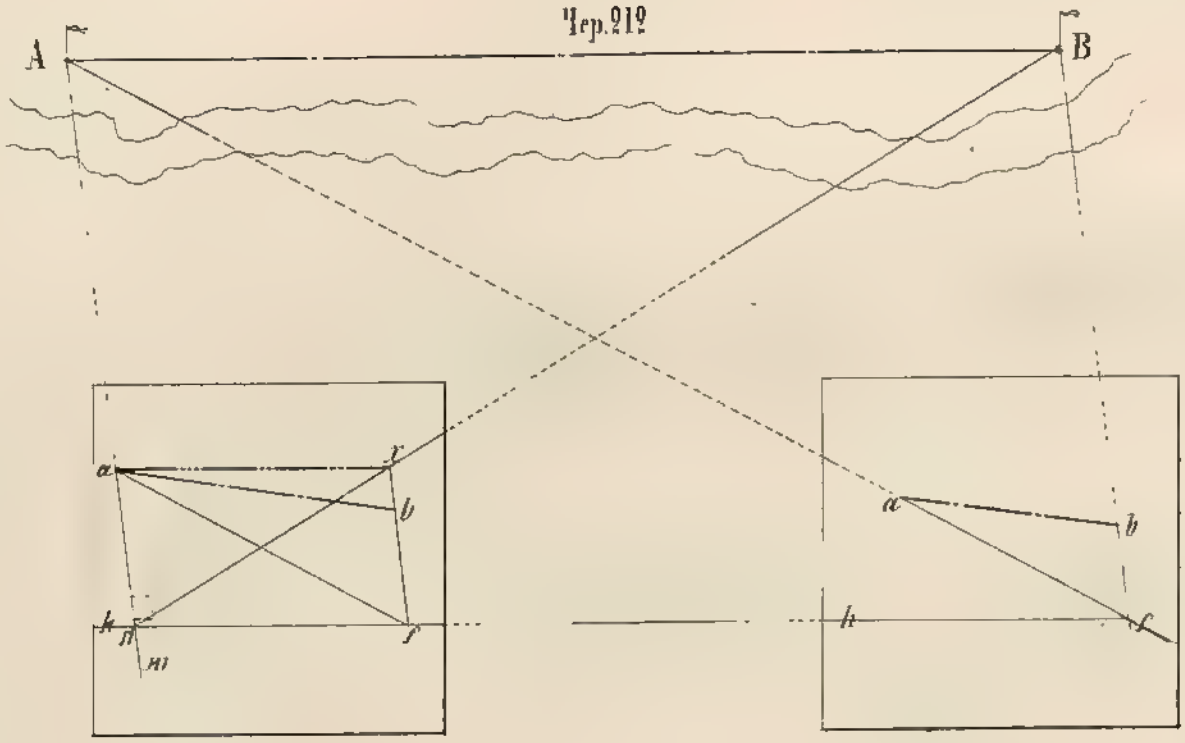


Чер 211

Чер. 212



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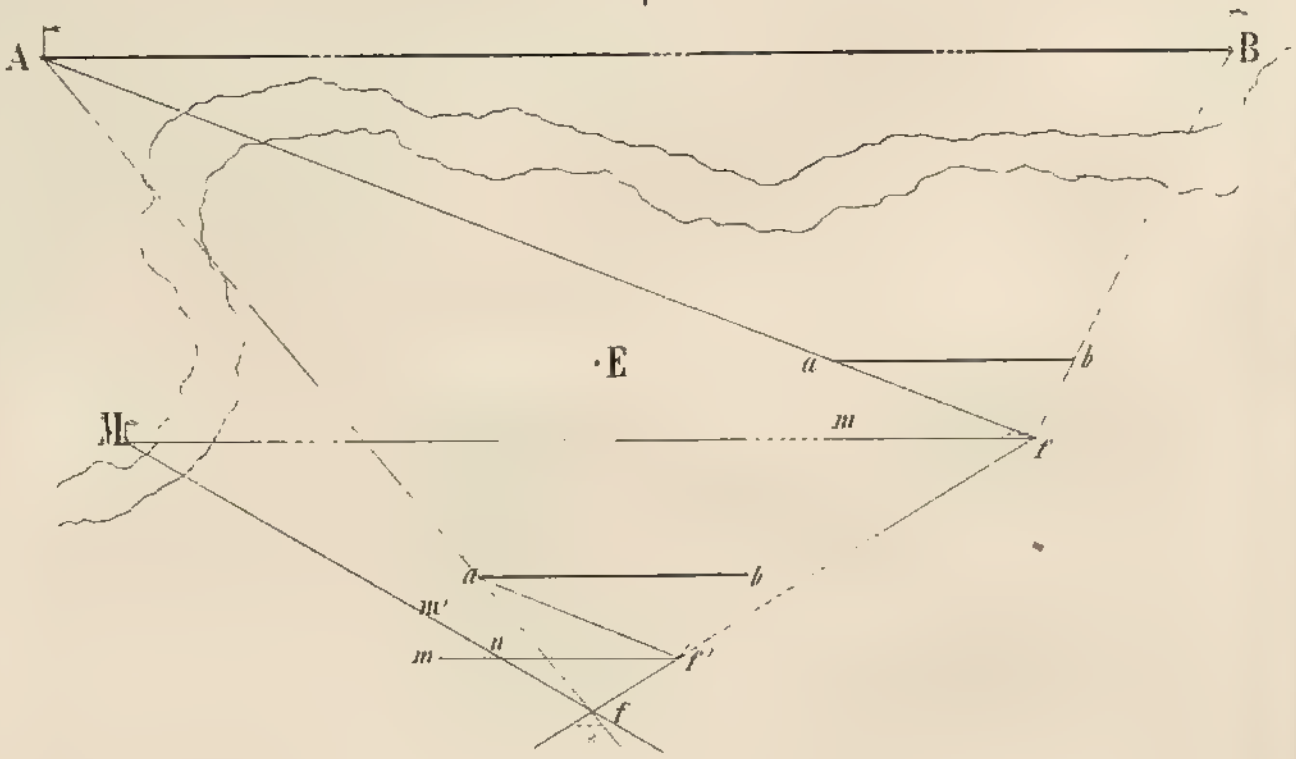

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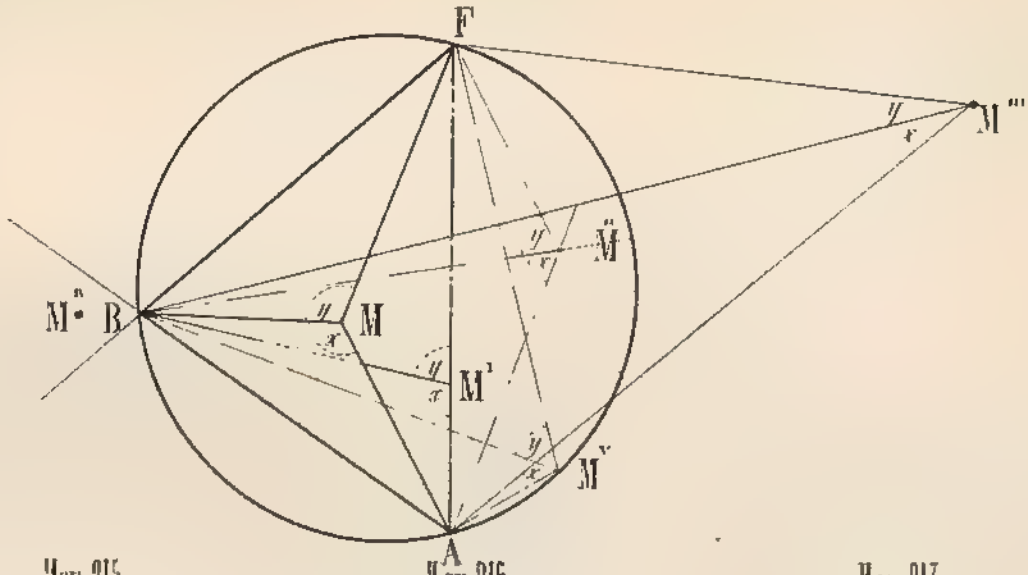

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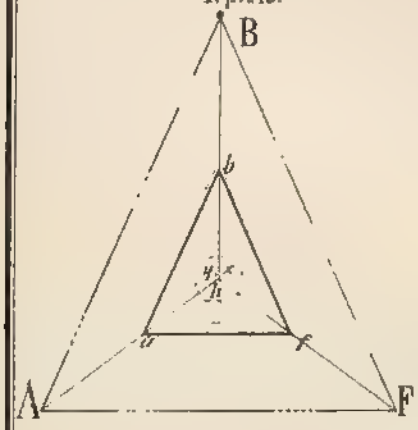

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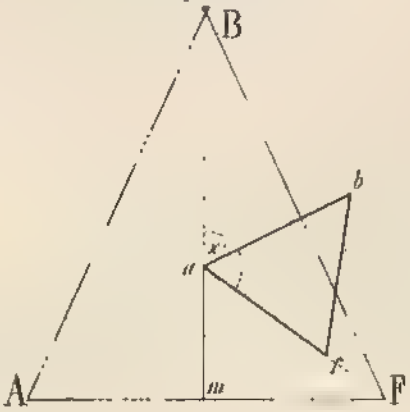

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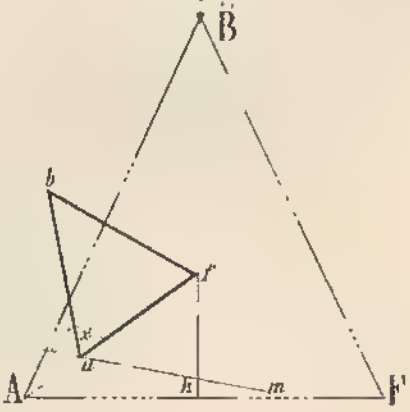
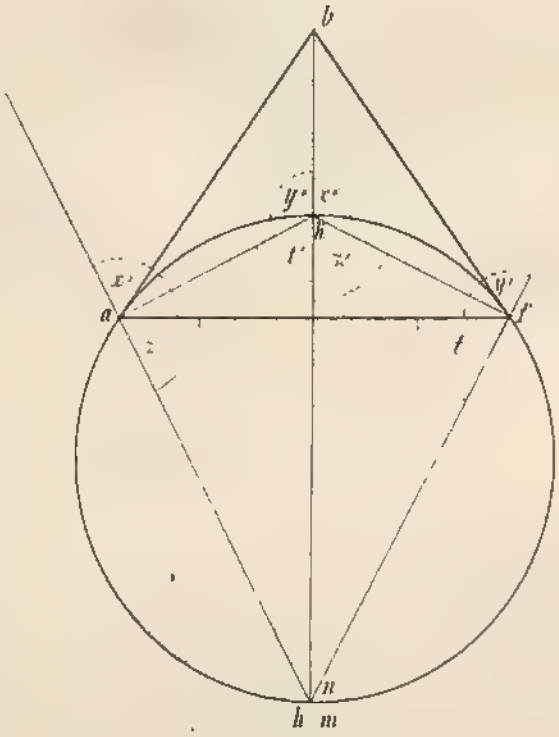


Чер 218.



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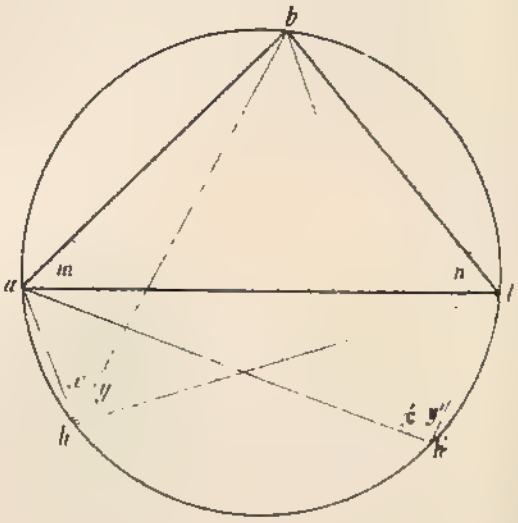

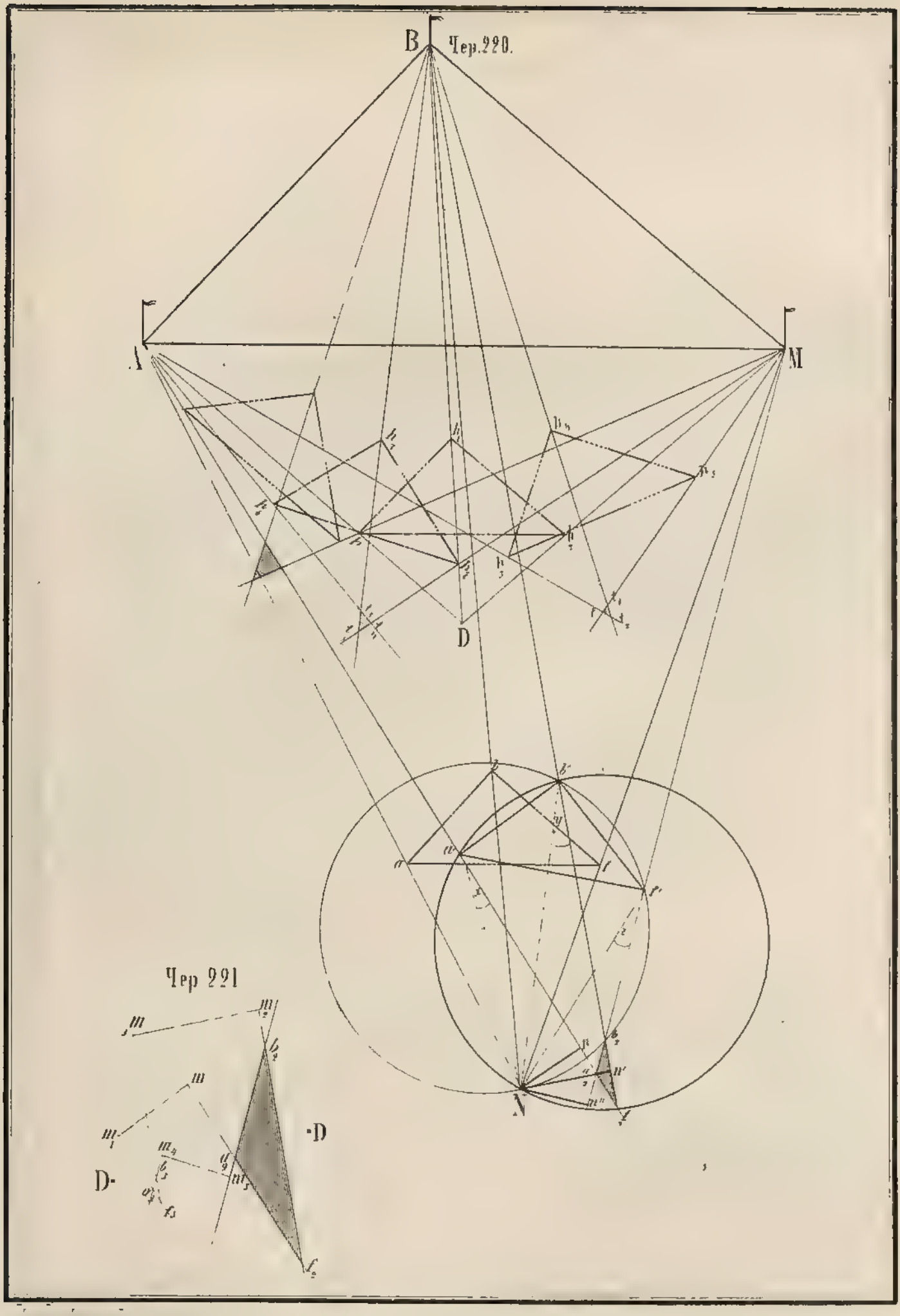
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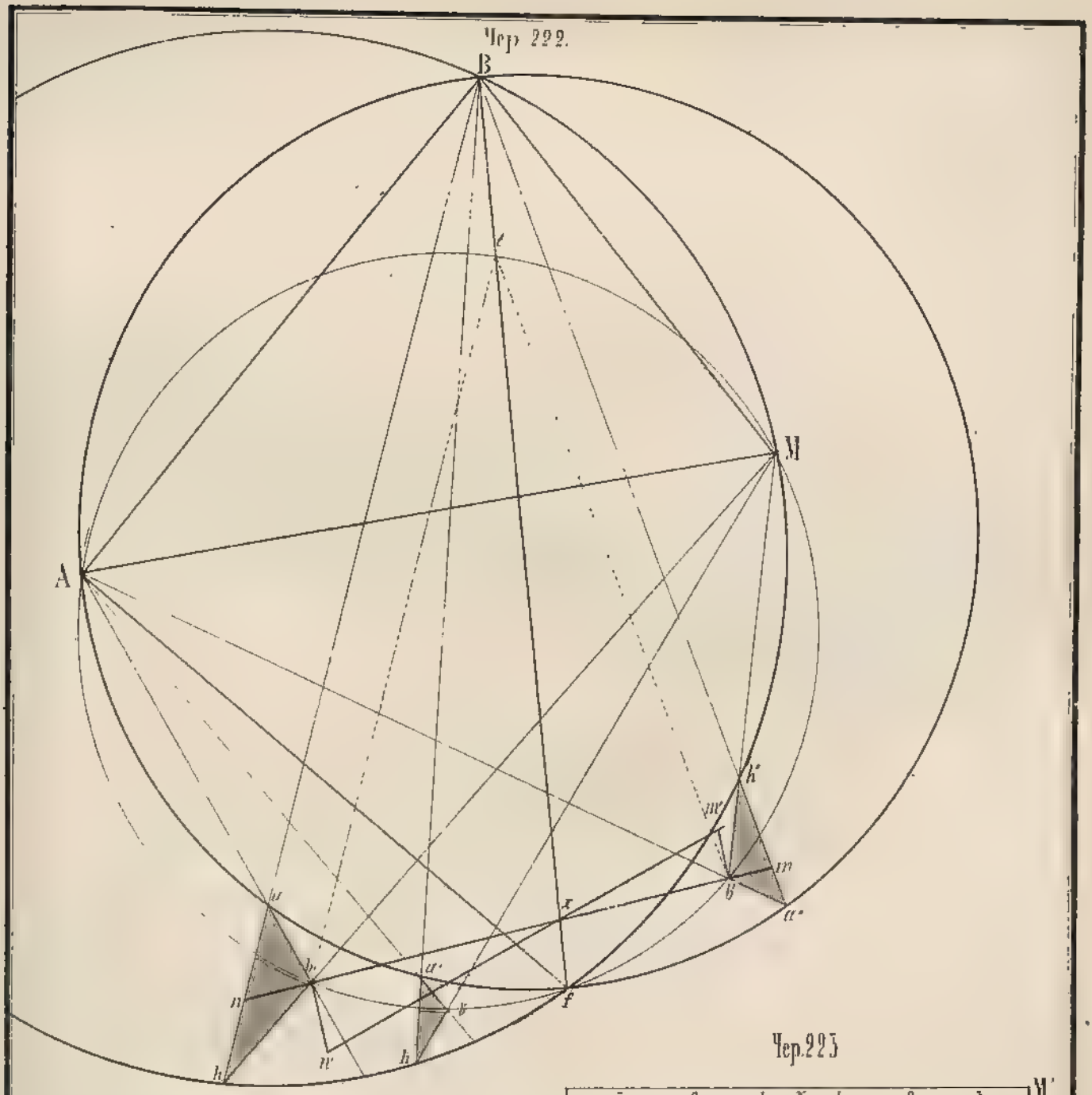
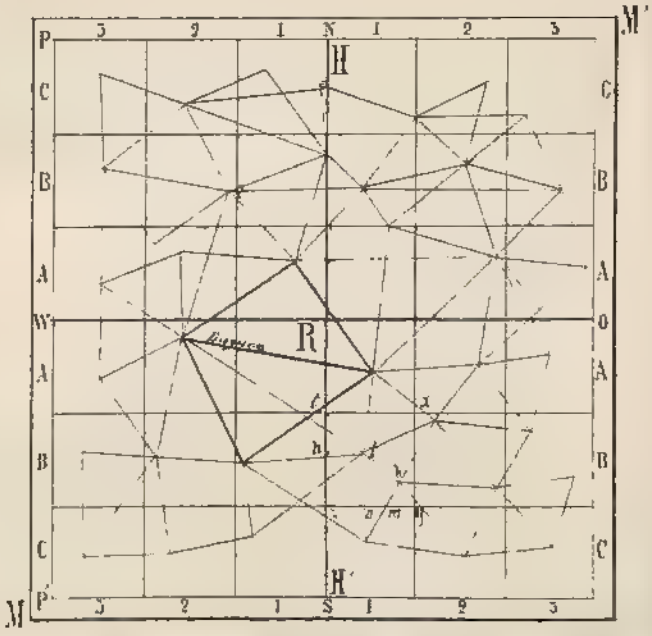
Чер. 222.



Чер. 223



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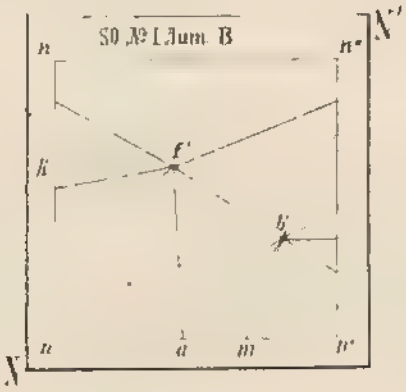

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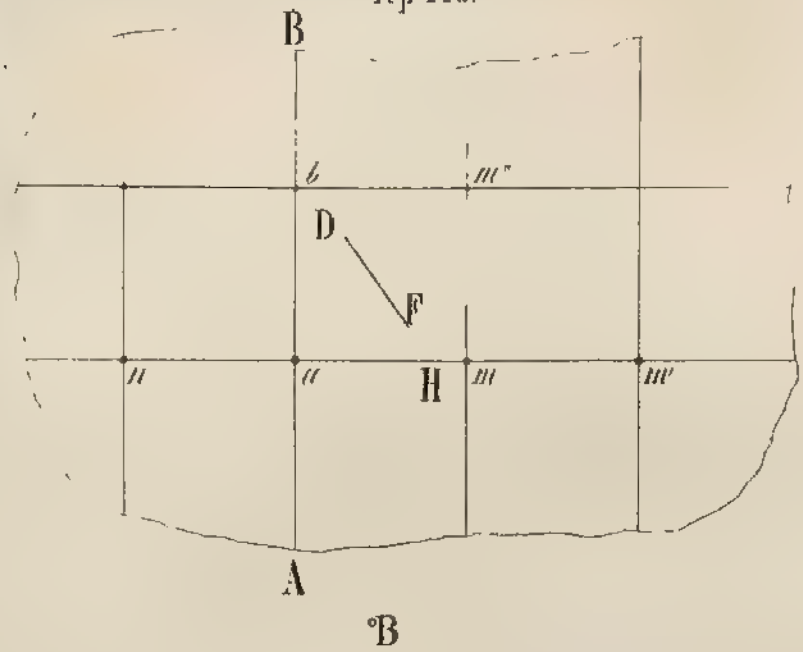

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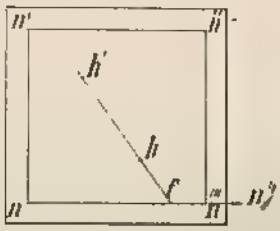

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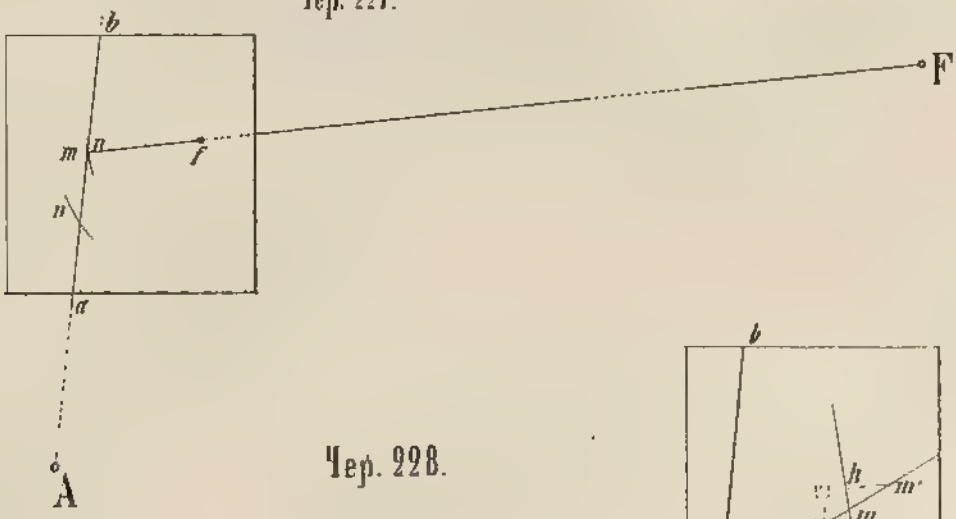

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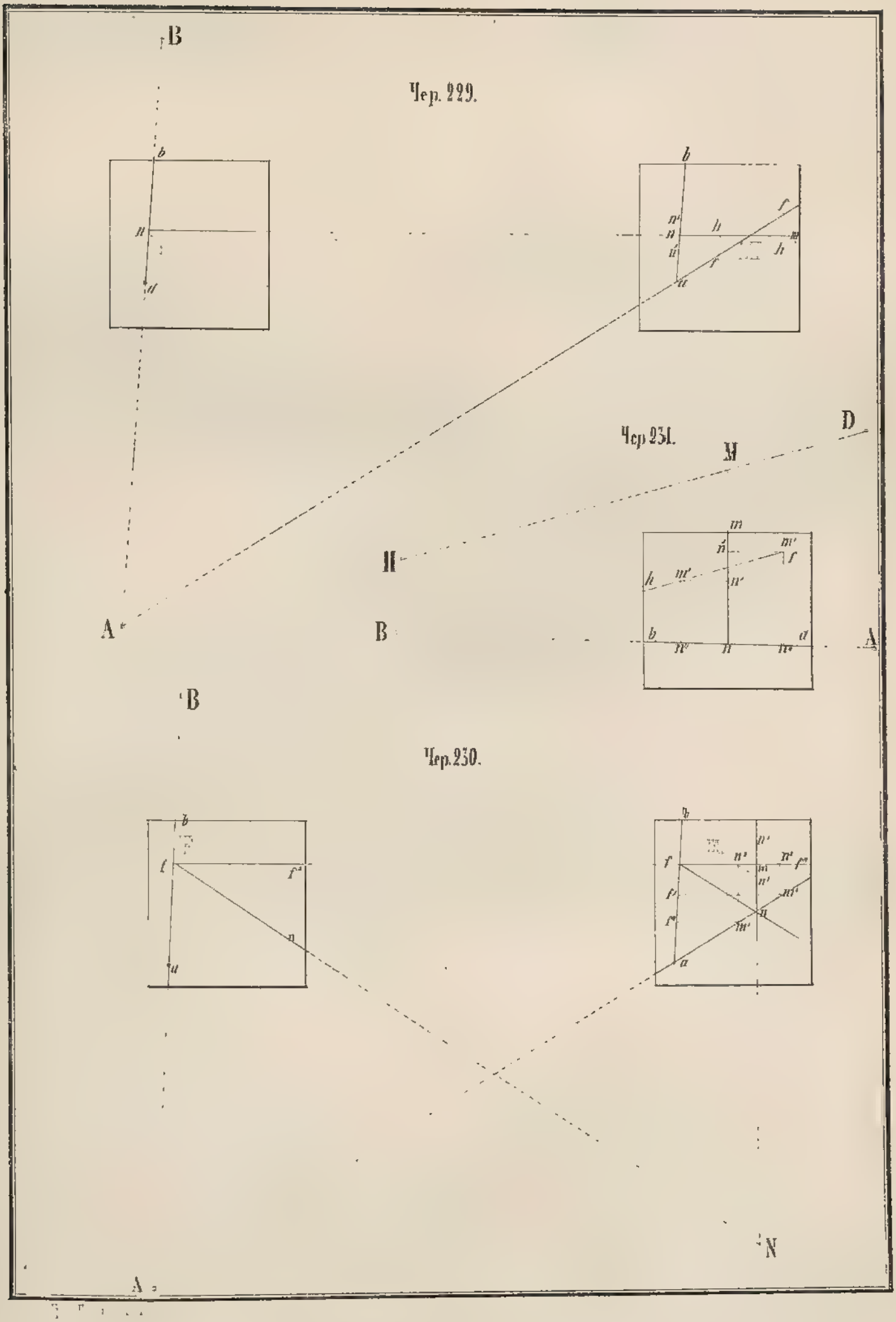
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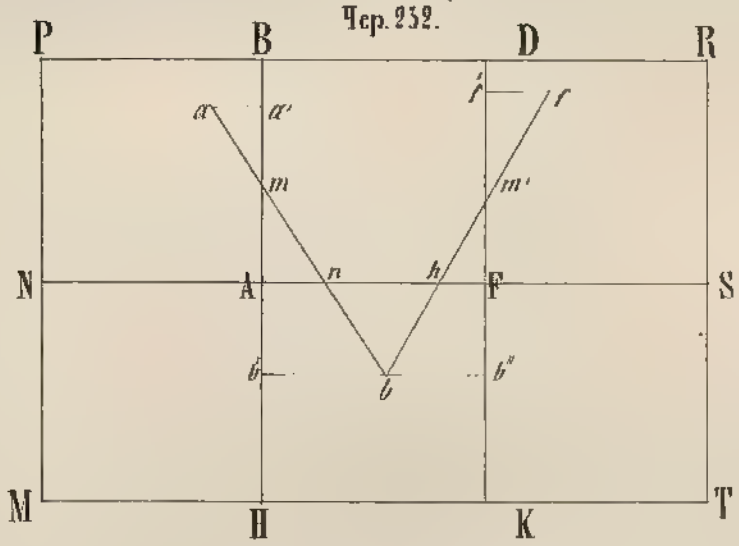

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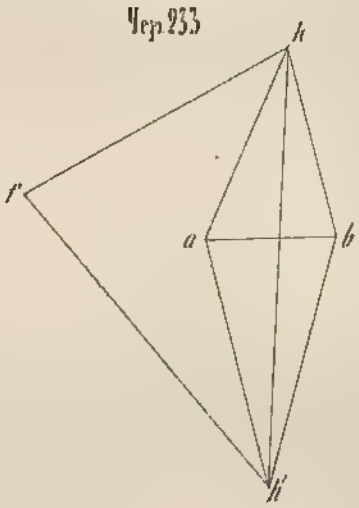

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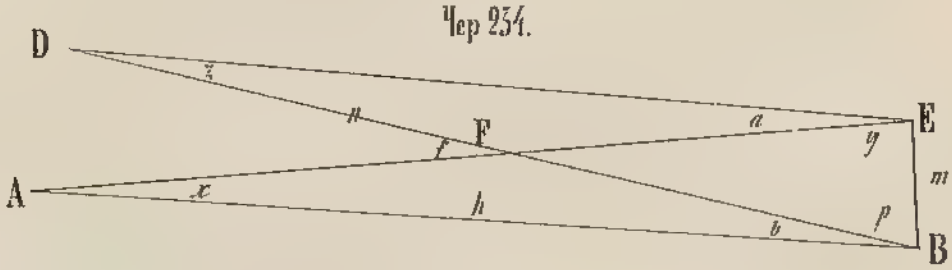

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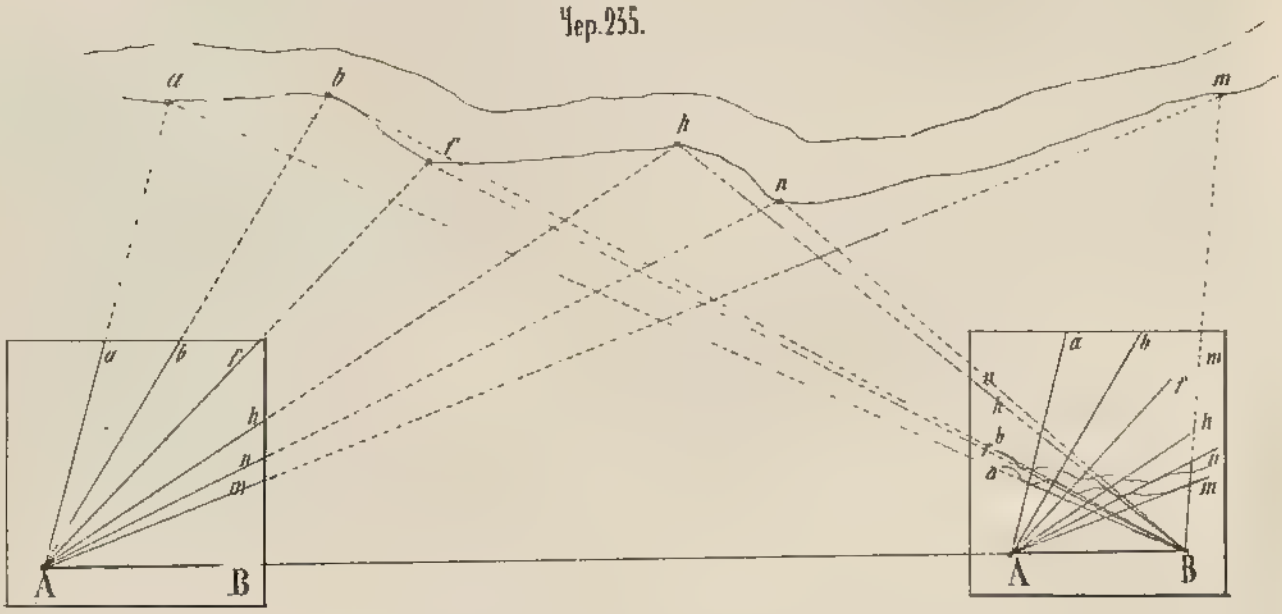

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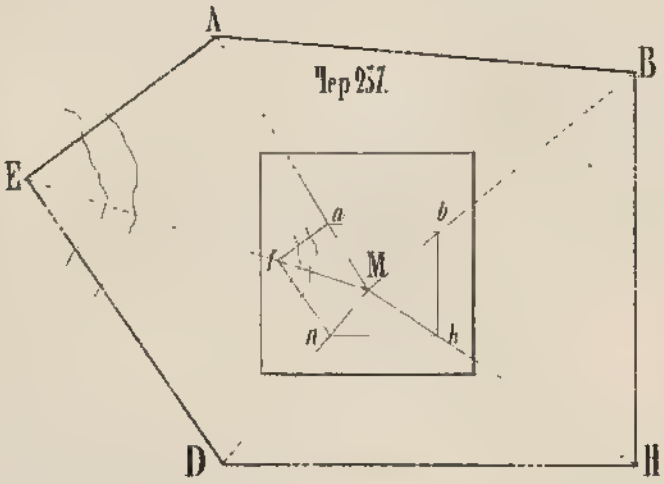

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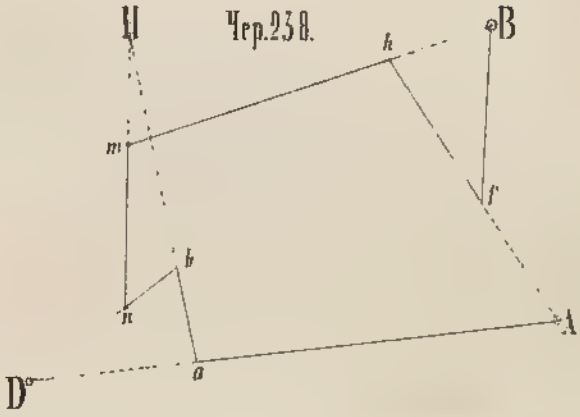

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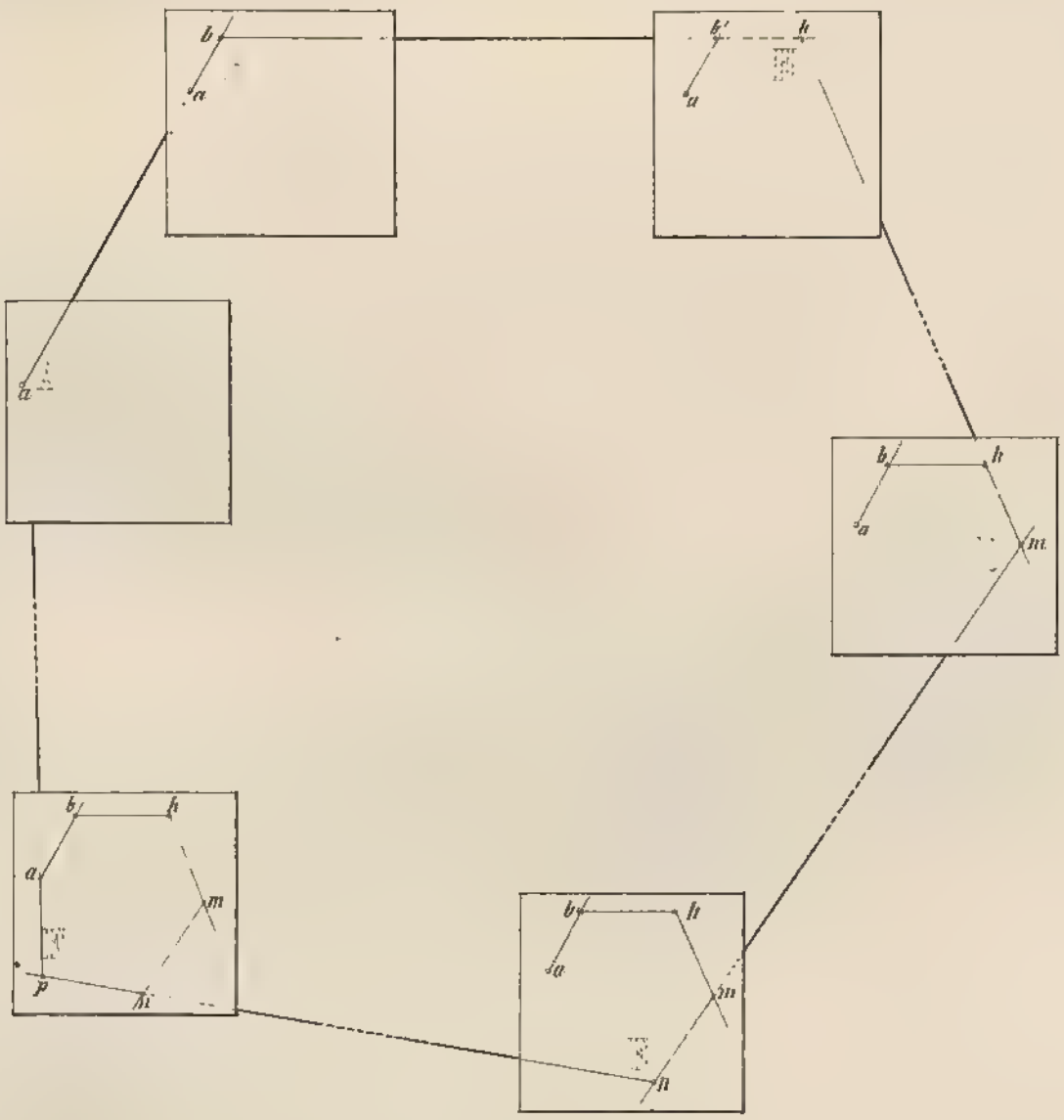
Чер. 236



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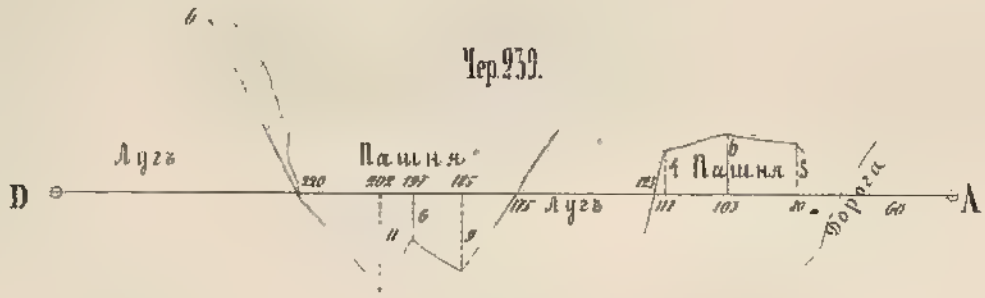

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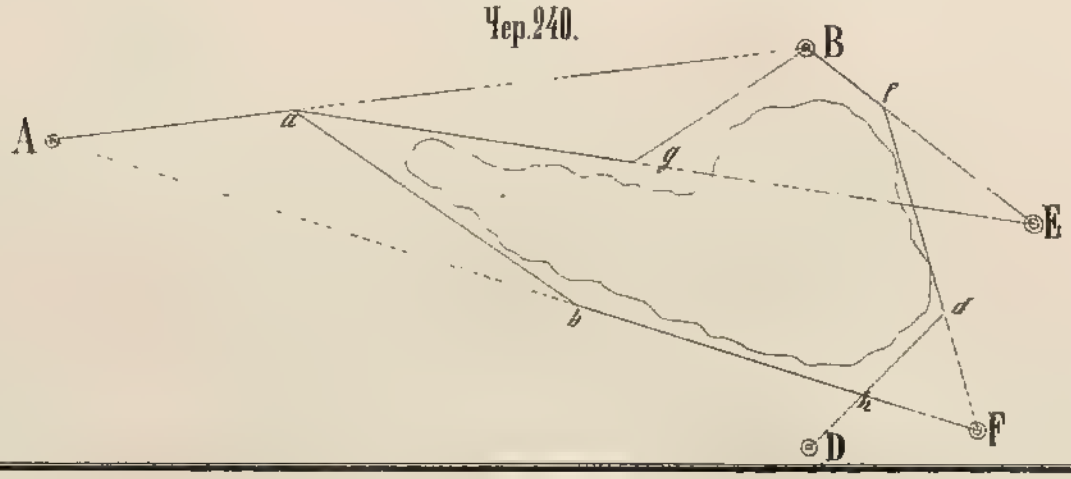

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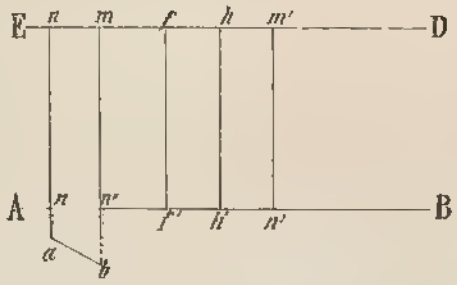

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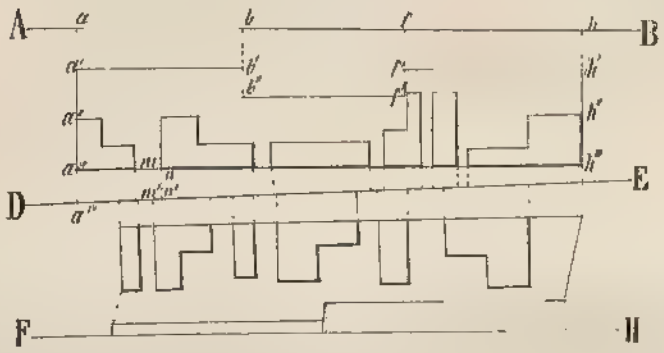

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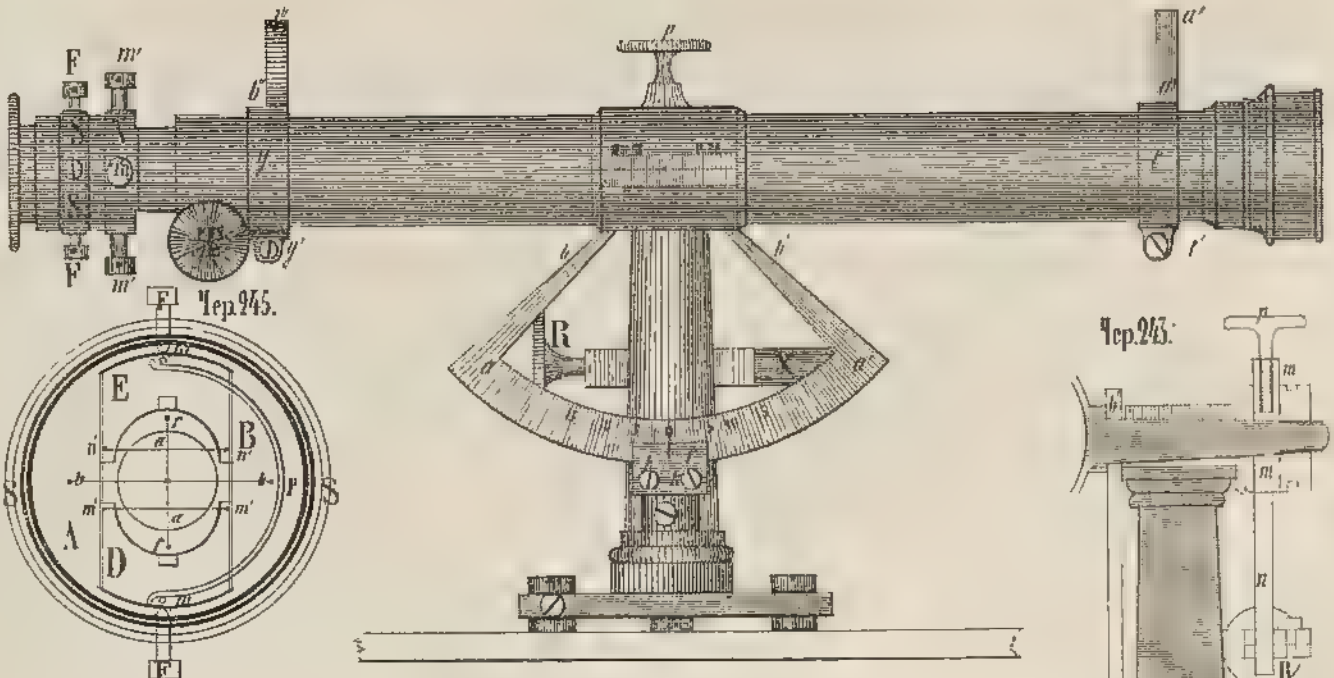

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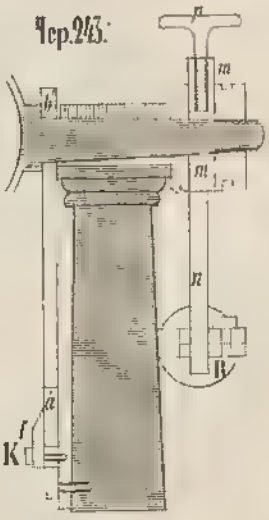
Чер. 243.



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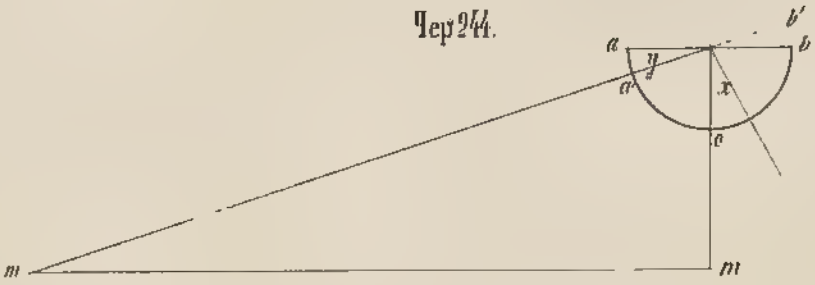

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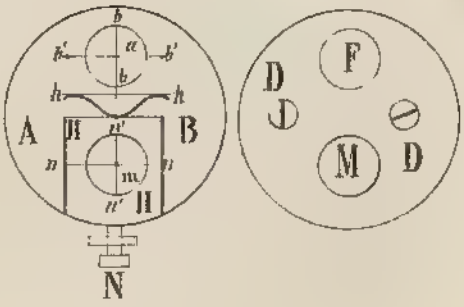

Гр. С. Т. и. Эрберъ

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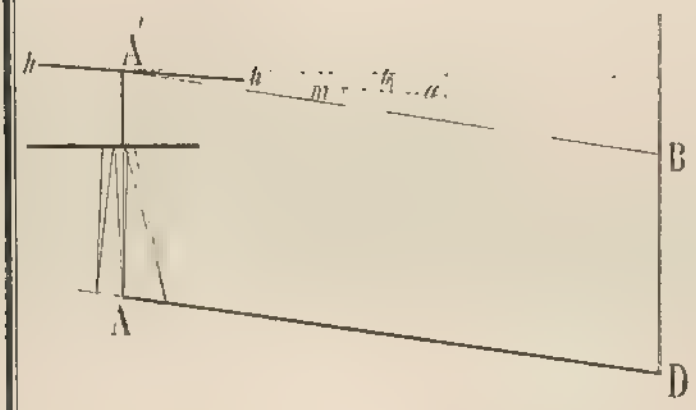

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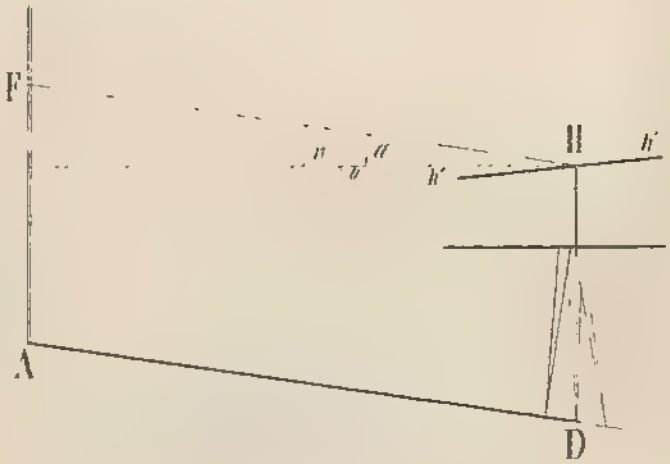

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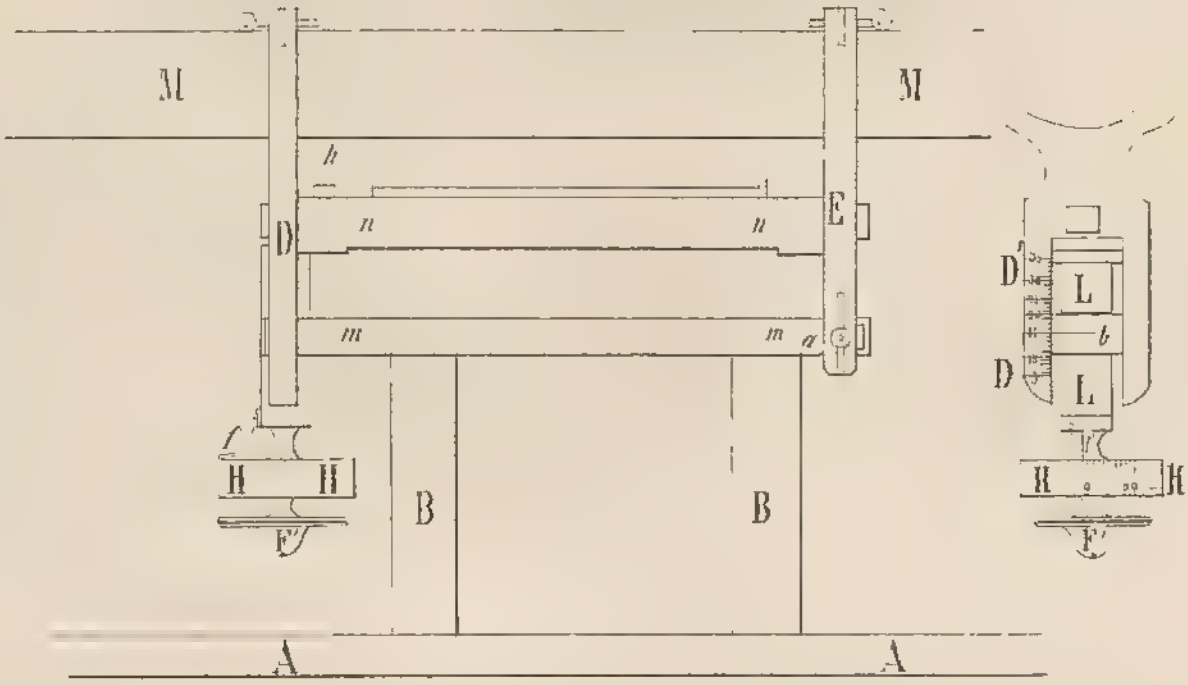

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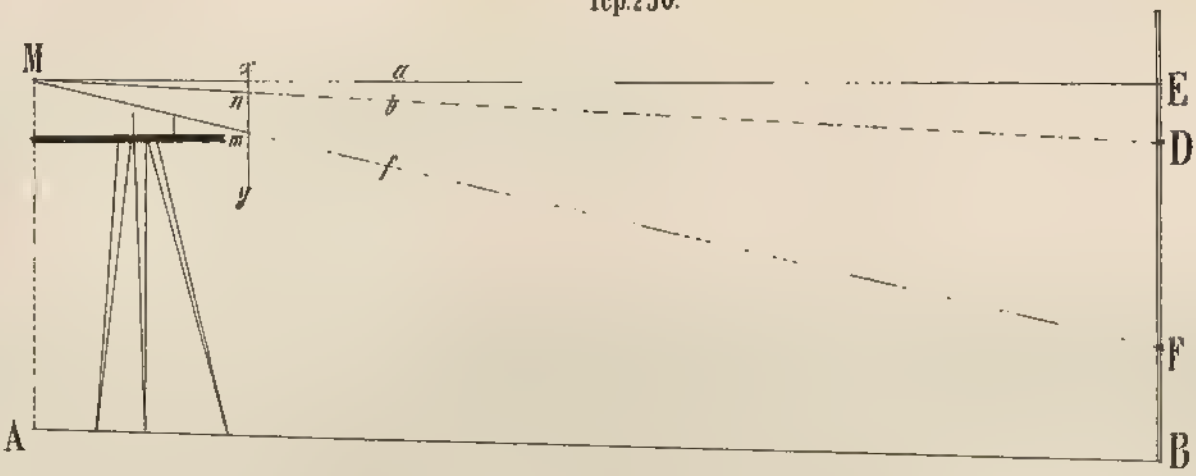

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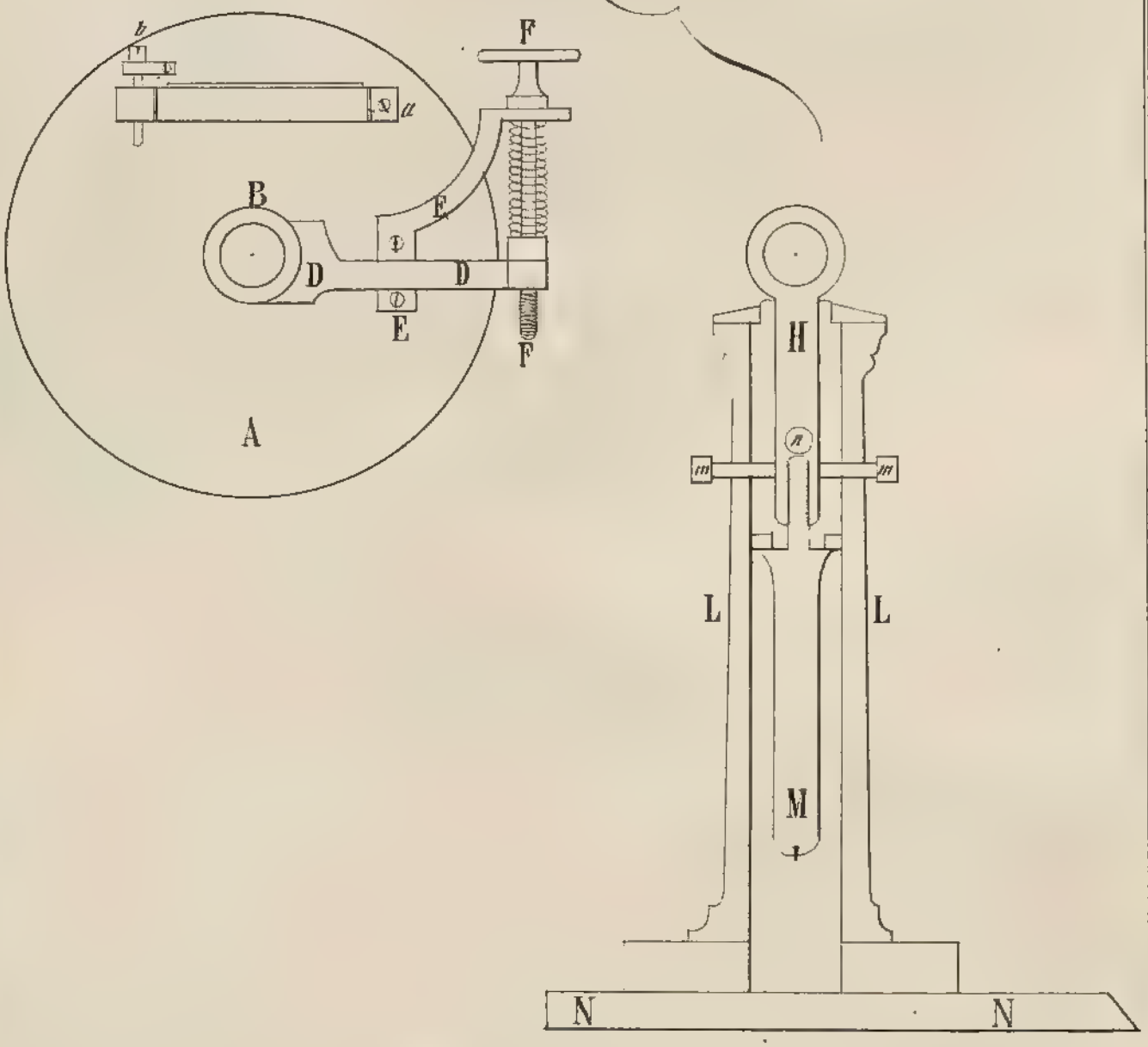

Гр. С Грегорьевъ

ГЕОДЕЗИЧЕСКІЙ

ЖУРНАЛЪ

веденный при съемкѣ окружной границы, дачи Московской губерніи, Клинскаго уѣзда, села Воздвиженскаго, владѣнія Полковника Безобразова

въ 1866 году Іюня 4.

(Чер. 145).

№№ пунктовъ.	Румбы въ натурѣ.	Астролябическіе углы.	Мѣра линій.	Примѣчанія.	Смежныя земли	Исправленные румбы.	Истинные румбы.	Горизонталь проложенія.
1.	NW 8°	122°3/4	169,8	до 146,5 Саж. уголъ наклоненія 0°, до конца линіи 16°.	Земля деревни Безводной	NW 8°	NW 5°	168,9
2.	N0 64°1/4	107°1/2	167	На 53 саж. перпендикуляръ длина: до гребня овраги 18 саж. уголъ наклоненія 0°, до воды 37,3 саж. уголъ наклоненія 9°. На 114 саж. перпендикуляръ длина до гребня 10 саж. уголъ наклоненія 0°, до воды 41 саж. уголъ наклоненія 11°.		N0 64°1/2	N0 67°1/2	167
3.	S0 64	128°1/2	174	до гребня 29 саж. уголъ наклоненія 0°, до воды 41 саж. уголъ наклоненія 14°		S0 64°	S0 61°	174
4.	SW 13°1/4	102°3/4		До a' 40 саж., уголъ при $a'=59°3/4$, длина $a'b'=64$ саж., уголъ при $b'=58°3/4$, длина $b'f'=62,9$ саж. отъ f' до H длина 41,2 саж.	Рысь	SW 13°1/2	SW 16°1/2	143,6
5.	S0 60°	107°	140	Уголъ наклоненія 0°.		S0 59°1/2	S0 56°1/2	140
6.	SW 82°1/2	37°1/4	188,5	Уголъ наклоненія 0°.	Пустошь	SW 83°1/4	SW 86°1/4	188,5
7.	NW 65°3/4	148°1/2	166,5	Уголъ наклоненія 0°. Склоненіе стрѣлки къ востоку на 3° Сдѣланъ промѣръ отъ конца SW 82 1/2 M. 188 1/2, на пунктъ при концѣ SW 13 1/4 и при началѣ S0 60, уголъ 188 1/2, мѣра 109 1/2		NW 65°1/4	NW 62°1/4	166,5

ГЕОДЕЗИЧЕСКІЙ

ЖУРНАЛЪ

веденный при съемкѣ окружной границы, дачи Московской губерніи, Клинскаго уѣзда, села Сосницкаго, владѣнія Полковника Царскосельскаго

въ 1866 году Іюня 7.

(Чер. 147).

№№ пунктовъ.	Отсчитыванія. I нонiусъ	Отсчитыванія. II нонiусъ	Секторъ	Средина изъ отсчитыванiй	Величина угла.	Разстоянія отъ начала.	Углы наклоненія.	Длина линій	Примѣчанія.	Исправленные внутренніе углы.	Румбы.	Горизонтальныя проложенія.
1.	—	—	—	—	—	24 140 450 478,5 495	6° 10° 0° 12° 0°	495	На этой линіи взята точка № 2 въ разстояніи отъ начальной въ 478,5 саженяхъ по измѣренію.		N0 25° 55′	До № 2 476
2.	0° 5′ 115° 59′ 20° 10′ 136° 4′	6′ 116° 0′ 8′ 3′	п п л л	0° 5′,5 115° 59′,5 20° 9 136° 3′,5	115° 54′	255 267 280 317 398 503	0° 8° 4° 5° 10° 0°	503	Для снятія рѣки были взяты перпендикуляры: 1-й, на 193 саж., длиною по горизонтальному проложенію 27 саж.; 2-й, на 347 саж. длиною 57 саж. при углѣ наклоненія въ 13 градусовъ.	115° 55′	Ost	501, 5
3.	0° 4′ 107° 36′ 18° 50′ 126° 22′	2′ 34 52′ 24	л л п п	0° 3′ 107° 35′ 18° 51′ 126° 23′	107° 32′	143 470,4	8° 0°	470,4	Отъ № 3 до воды по продолженію линіи №№ 4 и 3 по горизонтальному проложенію 22 сажени.	107° 33′	S0 17° 33′	469
4.	1° 0′ 154° 1′ 12° 8′ 165° 8′	0′ 0′ 8′ 8′	п п л л	1° 0′ 154° 0′, 5 12° 8′ 165° 8′	153° 0′	94	14°		Для опредѣленія ширины пруда взята линія, которая съ направленіемъ на пунктъ 4-й составляетъ уголъ 120° 20′, длиною 118 саж. при углѣ наклоненія 0°; при концѣ этой линіи измѣренъ уголъ 60° 4′, мѣрою до пересѣченія съ линіею №№ 4 и 5, 117, 3 саж. при углѣ наклоненія 0°; отъ этого пункта до № 5 длина 279,6 при углѣ наклоненія 0°.	153° 1′	SW 9° 26′	488,6

5.	0° 10′ 70° 27′ 14° 10′ 84° 29′	9′ 28′ 10′ 27′	л л п п	0° 9′,5 70° 27′,5 14° 10′ 84° 28′	70° 18′	49	0°	49
6.	0° 50′ 286° 31′ 15° 3′ 300° 44′	52′ 33′ 4′ 45′	п п л л	0° 51′ 286° 32′ 15° 3′,5 300° 44′,5	285° 41′	31	0°	31
7.	0° 18′ 80° 30′ 40° 10′ 120° 22′	19′ 32′ 10′ 24′	л л п п	0° 18′,5 80° 31′,5 40° 10′ 120° 23′	80° 13′	49	0°	49
8.	0° 6′ 270° 54′ 10° 12′ 280° 58′	7′ 55′ 10′ 281° 0′	п п л л	0° 6′,5 270° 54′,5 10° 11′ 280° 59′	270° 48′	40	0°	40
9.	1° 4′ 89° 48′ 12° 11′ 100° 56′	4′ 50′ 12′ 57′	л л п п	1° 4′ 89° 49′ 12° 11,5 100° 56′,5	88° 45′	48	0°	48
10.	0° 11′ 120° 8′ 10° 10′ 130° 8′	10′ 9′ 11′ 9′	п п л л	0° 10′,5 120° 8′,5 10° 10′,5 130° 8′,5	119° 58′	158,4	0	158,4

Пунктъ 5 соединенъ съ пунктомъ 10 діагональю, которая съ линіею №№ 5 и 4 составляетъ уголъ 100° 40′, мѣрою: до 100 саж. уг. накл. 10°, 120 саж. уг накл. 8° и до 157, 9, уг. накл. 0°. Діагональ эта съ линіею № 10 и 11 составляетъ уголъ въ 94°52′.	70° 16′	NW 60° 50′	49
	285° 39′	SW 13° 31′	31
	80° 11′	NW 66° 40	49
	270° 46′	SW 22° 34′	40
	88° 44′	NW 66° 10′	48
Линія № 10 и 11 продолжена до встрѣчи съ линіею №№ 12 и 13 и составляетъ уголъ 278° 38′, вершина его отстоитъ отъ № 11 въ 30 саж., а отъ № 12 въ 35,2 саж. и длина линіи отъ № 10 до пересѣченія будетъ 188,4 а, длина линіи отъ пересѣченія до № 13 210,6 сажен.	119° 58′	NW 6° 8′	158,4

11.	0°41′ 235°21′ 32° 6′ 266°45′	40′ 20′ 6′ 47	л л п п	0°40′,5 235°20′,5 32° 6′ 266′46′	234°40′	42,7	0°	42,7
12.	1° 1′ 225° 2′ 18° 8′ 242° 8′	0′ 0′ 9′ 9′	п п л л	1° 0,5 225° 1′ 18° 8′,5 242° 8′,5	224° 0	175,4	0°	175,4
13.	0° 1′ 124° 1′ 14° 8′ 138° 7′	0′ 0′ 7′ 8′	л л п п	0° 0′,5 124° 0′,5 14° 7′,5 138° 7′,5	124° 0′	20	0°	20
14.	0° 5′ 266° 4′ 10°18 276°18′	4′ 5′ 19′ 20′	п п л л	0° 4′,5 266° 4′,5 10°18, 5 276°19′	266° 0′	198,2	0°	198,2
15.	0° 8′ 27° 7′ 27° 7′ 54° 6′	7′ 6′ 6′ 5′	л л п п	0° 7,5 27° 6′,5 27° 6′,5 54° 5′,5	26°59′	26	0°	26
16.	0° 5 210° 6′ 18°42′ 228°41′	6′ 5′ 40′ 41′	п п л л	0° 5′,5 210° 5′,5 18°41′ 228°41′	210° 0′	49	0°	49
17.	0° 3′ 253° 4′ 16°43′ 269°43′	4′ 3′ 42′ 42′	л л п п	0° 3,5′ 253° 3,5′ 16°42′,5 269°42′,5	253° 0′	42	0°	42

	234° 39	NW60°47′	42,7
Линія № 12 и 13 продолж. и встрѣчаетъ линію № 14 и 15, подъ угломъ 209° 55′ на разстояніи отъ № 13 на 40 саж. а отъ № 14 въ 34,6 саж. и потому длина линіи отъ № 12 будетъ 215,4, а отъ пересѣченія съ линіею №№ 11 и 10 въ 250,6 саж.	224° 0′	SW 75° 13	175,4
	123° 58′	NW 48°45′	20
	265° 58′	SW 45°17′	198,2
№ 15 соединенъ съ № 20 діагональю которая съ линіею №№ 15 и 14 составляетъ уголъ въ 89° 8′ мѣрою 118 саж., а съ линіею №№ 20 и 21. уголъ въ 180°.	26° 57′	NO 18°20′	26
	209° 58′	NW 11°38′	49
	252° 58′	NW 84°36′	42

18.	0° 34′ 101° 4′ 40° 5′ 140° 34′	34′ 5′ 5 36′	п п л л	0° 34′ 101° 4,5′ 40° 5′ 140° 35′	100° 30′	35	0	35
19.	0° 17′ 309° 7′ 24° 15′ 333° 5′	18′ 8′ 14′ 4′	л л п п	0° 17′,5 309° 7′,5 24° 14′,5 333° 4,5′	308° 50′	43	0	43
20.	0° 8′ 90° 9′ 60° 15′ 150° 14′	8′ 8′ 15′ 15′	п п л л	0° 8′ 90° 8,5 60° 15′ 150° 14′,5	90° 0°	147,3	0°	147,3
21.	0° 2′ 146° 26′ 18° 8′ 164° 33′	3′ 27′ 8′ 31′	л л п п	0° 2,5′ 146° 26′,5 18° 8′ 164° 32′	146° 24′	311,4	0°	311,4
1.	0° 22′ 144° 9′ 14° 26′ 157° 53′	23′ 10′ 5′ 52′	п п л л	0° 22′,5 144° 9′,5 14° 5′,5 157° 52′,5	143° 47′	—	—	—

	100° 28′	NW 5° 4′	35
	308° 48′	SW 46° 8′	43.
	90° 0′	NW 43° 52′	147,3
	146° 25′	NW 10° 17′	311,4
— — — — —	143° 48′		
Діагональ первая	100° 41′	SW 88° 45′	156,3
Длина линіи №№ 10 и 11	—	NW 6° 8′	188,4
Длина линіи №№ 12 и 13 по продолженію.	—	SW 75° 13′	250,6
Линія №№ 15 и 20	89° 9′	NW 43° 52′	265,3

Вѣдомость Координатамъ и площади дачи А. губер. В. уѣзда, села Сосницкаго. 1866 года.

№№ пункт.	Румбы.	Горизон. проложенія.	Приращенія. по абсцисамъ +△x	Приращенія. по абсцисамъ —△x	Приращенія. по ординатамъ +△y	Приращенія. по ординатамъ —△y	исправлен. приращен. △x	исправлен. приращен. △y	№№ пункт.
1			0		0				1
2	NO 25° 55	476,0	428,13		208,04		+ 427,91	+ 208,55	2
3	Ost	501,5	0		501,50		— 0,23	+ 502,04	3
4	SO 17° 33'	469,0		447,17	141,42		— 447,39	+ 141,93	4
5	SW 9° 26	488,6		481,99		80,08	— 482,21	— 79,95	5
10	SW 88° 45	156,3		3,41		156,26	— 3,48	— 156,10	6
a	NW 6° 8	188,4	187,32			20,13	+ 187,23	— 19,94	7
A'	SW 75° 13'	250,6		63,94		242,30	— 64,05	— 242,04	8
15	SW 45° 17'	163,6		115,11		116,25	— 115,18	— 116,07	9
21	NW 43° 52'	265,3	191,27			183,86	+ 191,15	— 183,57	10
1	NW 10° 17'	311,4	306,40			55,59	+ 306,25	— 55,25	11
Суммы			1113,12	1111,62	850,96	854,47			12
невязка.			+1,50			—3,51			13
									14
6	NW 60° 50	49,0	23,88			42,79	+ 24,07	— 43,21	15
7	SW 13° 31'	31,0		30,14		7,25	— 30,02	— 7,51	16
8	NW 66° 40'	49,0	19,45			44,99	+ 19,64	— 45,40	17
9	SW 22° 34'	40,0		36,94		15,35	— 36,78	— 15,69	18
10	NW 66° 10'	48,0	19,42			43,89	+ 19,61	— 44,29	19
5			3,48		156,10				20
Суммы			66,23	67,08	156,10	154,27			21
Невязка				—0,85	+1,83				1
11			0		0		+ 157,40	— 16,78	
12	NW 60° 47'	42,7	20,84			37,27	+ 20,84	— 37,29	
a	NO 75° 13'	35,2	8,98		34,11		+ 8,98	+ 34,09	
11	SO 6° 8	30,0		29,83	3,20		— 29,83	+ 3,20	
Суммы			29,82	29,83	37,31	37,27			
Невязка.				—0,01	+0,04				

Координаты. Абсцисы	Координаты. Ординаты	$x_2 - x$	$y_2 - y$	Двойныя площади. по абсцисамъ	Двойныя площади. по ординатамъ
0	0			. . . . .	
+ 427,91	+ 208,55	+ 427,68	+ 710,59	+ 89192,6640	+ 304068,5669
+ 427,68	+ 710,59	— 447,62	+ 643,97	—318074,2958	+ 275413,0896
— 19,17	+ 852,52	— 929,60	+ 62,38	—792502,5920	— 1229,5098
— 501,92	+ 772,97	— 458,14	— 122,76	—354128,4758	+ 61615,6992
— 477,85	+ 729,76	— 5,95	— 50,72	— 4342,0720	+ 24236,5520
— 507,87	+ 722,25	— 10,38	— 52,91	— 7496,9550	+ 26871,4017
— 488,23	+ 676,85	— 17,14	— 61,09	— 11601,2090	+ 29825,9707
— 525,01	+ 661,16	— 17,17	— 59,98	— 11352,1172	+ 31490,0998
— 505,40	+ 616,87	+ 177,01	— 61,07	+ 109192,1587	+ 30864,7780
— 348,00	+ 600,09	+ 178,24	— 54,07	+ 106960,0416	+ 18816,3600
— 327,16	+ 562,80	— 23,62	— 206,11	— 13293,3360	+ 67430,9476
— 371,62	+ 393,98	— 31,07	— 183,66	— 12240,9586	+ 68251,7292
— 358,23	+ 379,14	— 125,79	— 155,16	— 47692,0206	+ 55582,9668
— 497,41	+ 328,82	— 114,22	— 132,48	— 27278,0204	+ 65896,8768
— 472,45	+ 246,66	+ 73,48	— 2,68	+ 18124,5768	+ 1266,1660
— 423,93	+ 236,14	+ 52,93	— 52,88	+ 12498,8902	+ 22417,4184
— 419,52	+ 193,78	+ 39,65	— 45,91	+ 7683,3770	+ 19260,1632
— 384,28	+ 190,23	+ 5,91	— 35,11	+ 1124,2593	+ 13492,0708
— 413,61	+ 158,67	+ 78,03	— 134,98	+ 12381,0201	+ 55829,0778
— 306,25	+ 55,25	+ 413,61	— 158,67	+ 22851,9525	+ 48592,6875
0	0	+ 734,16	+ 153,30		
Сумма	положит.	2180,7	1570,24	380008,9402	1221222,6220
Сумма	отрицат.	2180,7	1570,24	1600002,0524	1229,5098
	Двойная площадь			1219993,1122	1219993,1122
		Площадь=		609996,56=	254 дес. 396,56 саж.

№№ пун.	Румбы.	Горизон. прилож.	+ Δx	— Δx	+ Δy	— Δy	Δx	Δy
13			0		0		—44,46	—168,82
14	NW48°45'	20,0	13,19			15,04	+13,39	— 14,84
A'	SW 45°17'	34,6		24,34		24,59	—24,00	— 24,25
13	N0 75°13'	40,0	10,21		38,68		+10,61	+ 39,09
	Суммы.		23,40	24,34	38,68	39,63		
	Невязка.			—0,94		—0,95		
15			0		0		—139,18	—140,32
16	N0 18°20'	26	24,68		8,18		+ 24,96	+ 7,84
17	NW11°38'	49	47,99			9,88	+ 48 52	— 10,52
18	NW84°36'	42	3,95			41,81	+ 4,41	— 42,36
19	NW 5° 4'	35	34,86			3,09	+ 35,24	— 3,55
20	SW 46° 8'	43		29,80		31,00	— 29,33	— 31,56
15	S0 43°52'	118		85,08	81,71		— 83,81	+ 80,16
	Суммы		111,48	114,87	89,89	85,78		
	Невязка.			—3,39	+4,11			
№21							+107,35	—103,41

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